

SONY[®]

2-108-981-13 (1)

GRAND WEGA



**LCD Projection TV
HD-Monitor
Operating Instructions**

**KF-42WE620
KF-50WE620**



Owner's Record

The model and serial numbers are located at the rear of the LCD projection TV, below the Sony logo, on the sticker, and also on the TV box (white label). Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____

Serial No. _____

Contacting Sony

If, after reading the following instructions, you have additional questions related to the use of your Sony TV, Please call one of the following numbers.

Customers in the continental United States contact the Direct Response Center at:

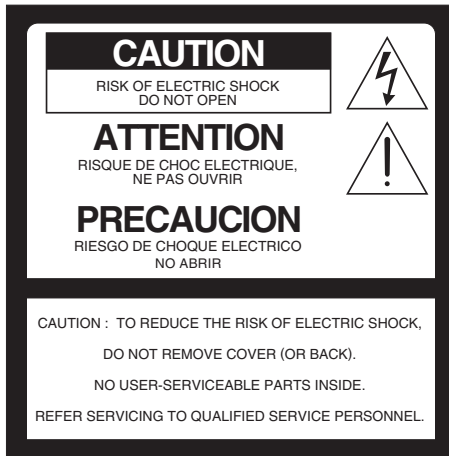
1-800-222-SONY (7669)

Customers in Canada contact the Customer Relations Center at:

1-877-899-SONY (7669)

WARNING

To prevent fire or shock hazard, do not expose the LCD projection TV to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

To prevent electric shock, do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

CAUTION

When using TV games, computers, and similar products with your projection TV, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern is left on the screen for long periods of time at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. Continuously watching the same program can cause the imprint of station logos onto the TV screen. These types of imprints are not covered by your warranty because they are the result of misuse.

Note on Caption Vision

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

Note to CATV system installer

This reminder is provided to call the CATV system installer’s attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Use of this television receiver for other than private viewing of programs broadcast on UHF, VHF, transmitted by cable companies or satellite for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antennas.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your warranty and your authority to operate this equipment.

Safety

- ❑ Operate the LCD projection TV only on 120 V AC.
- ❑ The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- ❑ If any liquid or solid object should fall inside the cabinet, unplug the LCD projection TV immediately and have it checked by qualified service personnel before operating it further.
- ❑ If you will not be using the LCD projection TV for several days, disconnect the power by pulling the plug itself. Never pull on the cord.
- ❑ For details concerning safety precautions, see “Important Safeguards” on page 5.

Installing

- ❑ To prevent internal heat buildup, do not block the ventilation openings.
- ❑ Do not install the LCD projection TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- ❑ Avoid operating the LCD projection TV at temperature below 41°F (5°C).
- ❑ If the LCD projection TV is transported directly from a cold to a warm location, or if the room temperature changes suddenly, the picture may be blurred or show poor color. In this case, please wait a few hours to let the moisture evaporate before turning on the LCD projection TV.
- ❑ To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the LCD projection TV in a room where the floor and walls are not of a reflective material.

Trademark Information



As an ENERGY STAR® Partner, Sony Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

ENERGY STAR® is a U.S. registered mark.

TruSurround, SRS and the (●)® symbol are trademarks of SRS Labs, Inc.

TruSurround technology is incorporated under license from SRS Labs, Inc.

BBE and BBE Symbol are trademarks of BBE Sound, Inc. and are licensed by BBE Sound, Inc. under U.S. Patent No. 4,638,258 and 4,482,866.

Steady Sound, Digital Reality Creation, CineMotion, and Twin View are registered trademarks of Sony Corporation. BN Smoother is trademark of Sony Corporation.

CAUTION

Use the following Sony appliance(s) only with the following TV STAND. Use with other TV STAND may cause instability and result in possible injury.

SONY APPLIANCE MODEL NO.:

KF-42WE620

KF-50WE620

SONY TV STAND MODEL NO.:

SU-GW11 (for KF-50WE620/KF-42WE620)

SU-GW1 (for KF-50WE620)

SU-GW2 (for KF-42WE620)

Important Safeguards

Before using your LCD projection TV, please read these instructions completely, and keep this manual for future reference.

Carefully observe and comply with all warnings, cautions and instructions placed on the set or described in the operating instructions or service manual.

WARNING

To guard against injury, the following basic safety precautions should be observed in the installation, use and servicing of the set.

Use

Power Sources

This set should be operated only from the type of power source indicated on the serial/model plate.

If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, refer to the operating instructions.

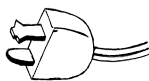


Grounding or Polarization

This set is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a three-wire grounding type plug (a plug having a third pin for grounding). Follow the instructions below:

For the set with a polarized AC power cord plug

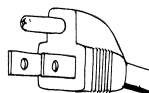
This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug.



If the plug still fails to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.

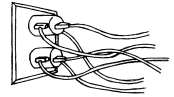
For the set with a three-wire grounding type AC plug

This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the grounding plug.



Overloading

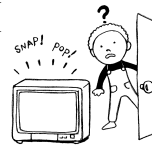
Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.



Always turn the set off when it is not being used. When the set is left unattended and unused for long periods of time, unplug it from the wall outlet as a precaution against the possibility of an internal malfunction that could create a fire hazard.



If a snapping or popping sound from a TV set is continuous or frequent while the TV is operating, unplug the TV and consult your dealer or service technician. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off.



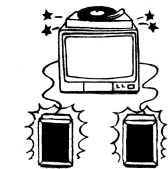
Object and Liquid Entry

Never push objects of any kind into the set through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the set.



Attachments

Do not use attachments not recommended by the manufacturer, as they may cause hazards.



Cleaning

- ❑ Clean the rear cover area of the LCD projection TV regularly. Dusts in rear cover area may cause the problem with cooling system of the LCD projection TV set.
- ❑ Clean the cabinet of the LCD projection TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with solution of mild soap and warm water. Never use strong solvents such as thinner or benzine for cleaning.
- ❑ If the picture becomes dark after using the LCD projection TV for a long period of time, it may be necessary to clean the inside of the LCD projection TV. Consult qualified service personnel.
- ❑ Unplug the AC power cord when cleaning this unit. If not, it may result in electric shock.



On contamination on the screen surface

The screen surface has a special coating to reduce reflections. To prevent screen damage, clean the screen as follows:

- ❑ Clean the screen with a soft cloth.
- ❑ To remove hard contamination, use the cloth moistened with a solution of mild detergent and water. Do not spray cleaning solution directly to the TV. It should only be first sprayed to moisten the cleaning cloth.
- ❑ Do not use any type of abrasive pad, alkaline cleaner, acid cleaner, scouring powder, chemical cloth, or solvent such as alcohol, benzene or thinner, as these may scratch the screen's coating.

Installation

Water and Moisture

Do not use power-line operated sets near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.



Accessories

Do not place the set on an unstable cart, stand, table or shelf. The set may fall, causing serious injury to a child or an adult and serious damage to the set. Use only a cart or stand recommended by the manufacturer for the specific model of LCD projection TV. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



Ventilation

The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of the set, and to protect it from overheating, these slots and openings must never be blocked or covered.

- ❑ Never cover the slots and openings with a cloth or other materials.



- ❑ Never block the slots and openings by placing the set on a bed, sofa, rug or other similar surface.



- ❑ Never place the set in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.



- ❑ Do not place the set near or over a radiator or heat register, or where it is exposed to direct sunlight.



Power-Cord Protection

Do not allow anything to rest on or roll over the power cord, and do not place the set where the power cord is subject to wear or abuse.



Antennas

Outdoor Antenna Grounding

If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

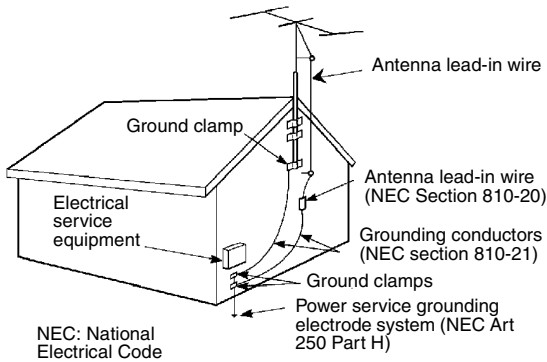
WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code (NEC) in USA and Section 54 of the Canadian Electrical Code in Canada provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Antenna Grounding According to the NEC

Refer to section 54-300 of Canadian Electrical Code for Antenna Grounding.



Lightning

For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power-line surges.

Service

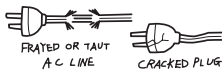
Damage Requiring Service

Do not attempt to service the set by yourself since opening the cabinet may expose you to dangerous voltage or other hazards.

Unplug the set from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- ❑ When the power cord or plug is damaged or frayed.
- ❑ If liquid has been spilled into the set.
- ❑ If the set has been exposed to rain or water.
- ❑ If the set has been subject to excessive shock by being dropped, or the cabinet has been damaged.
- ❑ If the set does not operate normally when following the operating instructions.

Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the set to normal operation.



- ❑ When the set exhibits a distinct change in performance, it indicates a need for service.

Replacement Parts

When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts.

Unauthorized substitutions may result in fire, electric shock or other hazards.

Safety Check

Upon completion of any service or repairs to the set, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the set is in safe operating condition, and to so certify. When the set reaches the end of its useful life, ask a qualified service technician to dispose of the set.

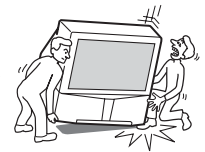


For Safety

Be careful when moving the LCD projection TV

When you place the LCD projection TV in position, be careful not to drop it on your foot or fingers.

Watch your footing while installing the LCD projection TV.



Carry the LCD projection TV in the specified manner

If you carry the LCD projection TV in a manner other than the specified manner and without the specified number of persons, it may drop and a serious injury may be caused. Be sure to follow the instructions mentioned below.

- ❑ Carry the LCD projection TV with the specified number of persons (see page 22).
- ❑ Do not carry the LCD projection TV holding the speaker grill.
- ❑ Hold the LCD projection TV tightly when carrying it.
- ❑ Before carrying the LCD projection TV, disconnect any accessories or cables.



About the LCD Projection TV

Although the LCD projection TV is made with high-precision technology, black dots may appear or bright points of light (red, blue, or green) may appear constantly on the LCD screen. This is a structural property of the LCD panel and is not a defect.

Installation

- ❑ If direct sunlight or other strong illumination shines on the screen, part of the screen may appear white due to reflections from behind the screen. This is a structural property of the LCD projection TV. Do not expose the screen to direct illumination or direct sunlight.
- ❑ The picture quality may be affected by your viewing position. Sit at least approx. 5.9 ft. (1.8 m) for KF-42WE620 or approx. 6.6 ft. (2.0 m) for KF-50WE620 away from your LCD projection TV, and within 60° of the vertical and 130° of the horizontal viewing area.
If you sit too close to the TV, you may experience eye strain. For the best picture quality, install your LCD projection TV according to “Recommended Viewing Area” on page 24.
- ❑ When installing your LCD projection TV against a wall, keep it at least 4 inches (10 cm) from the wall.
- ❑ Avoid installing the LCD projection TV close to high temperature sources such as a heater.

Projection lamp

- ❑ Your LCD projection TV uses a projection lamp as its light source. It is time to replace the lamp with a new one (not supplied) when:
 - the lamp replacement indicator on the front panel blinks in red,
 - screen images become dark,
 - no image appears on the display after prolonged use.
- ❑ In rare instances, the bulb may pop inside the lamp unit, but the lamp unit is designed to contain all of broken glass pieces inside the lamp unit. (See “Replacing the Lamp” on page 15.)
- ❑ When the lamp eventually burns out, you may hear a noticeable pop sound. This is normal and is inherent in this type of lamp.

Cooling fan

- ❑ This LCD projection TV uses a cooling fan. You may hear the noise of fan running, depending on the placement of your LCD projection TV. The noise may be more noticeable during the night or when the background noise level is low.

Remote control detection

- ❑ The remote control sensor is in the middle of the TV on the bottom. For the best results, aim the remote control at this location.

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.



Contents

Introducing the Sony LCD Projection TV

| | |
|---|----|
| Presenting the Sony LCD Projection TV | 11 |
| Using This Manual..... | 12 |
| Enjoying Your LCD Projection TV | 13 |
| Replacing the Lamp..... | 15 |

Installing and Connecting the LCD Projection TV

| | |
|---|----|
| Contents | 21 |
| Inserting Batteries into the Remote Control | 21 |
| Carrying Your LCD Projection TV | 22 |
| To Prevent the LCD Projection TV from Falling .. | 23 |
| When Installing Your LCD Projection TV Against a Wall..... | 23 |
| Recommended Viewing Area..... | 24 |
| LCD Projection TV Connectors | 25 |
| Connector Types | 28 |
| Basic Connections (Connecting Cable TV or Antenna)..... | 29 |
| Connecting a VCR and Cable | 33 |
| Connecting a VCR and Cable Box | 34 |
| Connecting Two VCRs for Tape Editing | 36 |
| Connecting a Satellite Receiver..... | 37 |
| Connecting a Satellite Receiver with a VCR..... | 38 |
| Connecting an Audio Receiver | 40 |
| Connecting an Audio Receiver | 40 |
| Connecting a DVD Player with Component Video Connectors | 41 |
| Connecting a DVD Player with A/V Connectors .. | 42 |
| Connecting a Digital TV Receiver with Component Connectors | 43 |
| Connecting a Digital TV Receiver with DVI-HDTV Connector..... | 44 |
| Connecting a Camcorder | 45 |
| Using the CONTROL S Feature..... | 46 |
| Setting Up the LCD projection TV Automatically..... | 47 |

Using the Features

| | |
|--------------------------------|----|
| Using the Remote Control | 49 |
| Watching Digital TV | 52 |
| Using Favorite Channels..... | 53 |

| | |
|--------------------------------|----|
| Using Twin View..... | 54 |
| Using the Freeze Function..... | 57 |
| Using Wide Screen Mode..... | 58 |

Using the Menus

| | |
|------------------------------|----|
| Overview..... | 59 |
| Using the Video Menu..... | 60 |
| Using the Audio Menu..... | 63 |
| Using the Screen Menu..... | 65 |
| Using the Channel Menu | 67 |
| Using the Parent Menu | 69 |
| Using the Setup Menu | 73 |

Other Information

| | |
|---|----|
| Programming the Remote Control..... | 77 |
| Using Other Equipment with Your LCD Projection TV Remote Control | 79 |
| Contacting Sony..... | 82 |
| Troubleshooting | 82 |
| Flashing Indicators on the Front of the Monitor... | 87 |
| Specifications..... | 88 |

Index

| | |
|-------------|----|
| Index | 91 |
|-------------|----|

Introducing the Sony LCD Projection TV

Presenting the Sony LCD Projection TV

Thank you for purchasing the Sony LCD projection TV.
This manual is for models KF-42WE620 and KF-50WE620.

Features

Some of the features that you will enjoy with your new LCD projection TV include:

- ❑ **HD-Monitor:** Enables the display of 1080i, 720p, 480p and 480i digital TV format signals.
By using the HD/DVD IN jacks, you can connect a DTV (digital television) receiver to view DTV programs.
- ❑ **DRC[®] (Digital Reality Creation) Multifunction V1:** Unlike conventional line doublers, the DRC feature converts frames reproduced every 1/60th of a second in real time, minimizing the blur or ghost of the motion images (for 480i signals only).
- ❑ **CineMotion[®]:** Using the reverse 3-2 pull down technology, the CineMotion feature provides smoother picture movement when playing back movies or other video sources on film.
- ❑ **Twin View[®]:** Using the Multi-Image Driver (MID-X), Twin View allows you to watch two programs side by side with the ability to zoom in on one picture and listen to the program in the selected window. You can watch pictures from two different sources (1080i, 720p, 480p or 480i) simultaneously. (Only the left Twin View window can display 1080i, 720p, and 480p sources).
- ❑ **Parental Control:** V-Chip technology allows parents to block unsuitable programming from younger viewers.
- ❑ **Digital Visual Interface (DVI-HDTV):** Supports a copy-protected digital connection (HDCP^{*}) to other devices (such as digital TV receivers) that have compatible interfaces. The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers.
- ❑ **Component Video Inputs:** Offers the best video quality for DVD (480p, 480i) and digital TV receiver (1080i, 720p, 480p, 480i) connections.

* High-bandwidth Digital Content Protection

(Continued)

- ❑ **S-VIDEO Inputs:** Provides a high-quality image from connected equipment.
- ❑ **Favorite Channel Preview:** Allows you to preview up to 16 favorite channels without leaving the current channel.
- ❑ **Wide Screen Mode:** Allows you to watch 4:3 normal broadcasts in wide screen mode (16:9 aspect ratio).
- ❑ **Auto Wide:** Allows you to select the Wide Screen Mode automatically.

Using This Manual

We recommend that you carefully review the contents of the following three sections in the order shown to ensure that you fully understand the operation of your new LCD projection TV.

1 **Installing and Connecting the LCD Projection TV**

This section guides you through your initial setup. It shows you how to install your LCD projection TV, to connect your new components and to connect the antenna and cable.

2 **Using the Features**

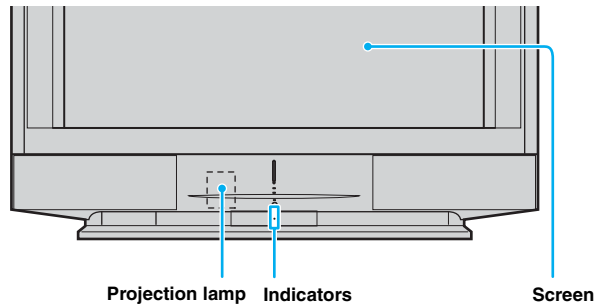
This section shows you how to begin using your new LCD projection TV. It also shows you how to use your remote control functions.

3 **Using the Menus**

This section teaches you how to access on-screen menus and adjust your LCD projection TV settings.

Instructions in this manual are written for the remote control. Similar controls are also found on the LCD projection TV console.

Enjoying Your LCD Projection TV



Indicators

The indicators show the current status of your LCD projection TV. If the LAMP indicator flashes, see “Flashing Indicators on the Front of the Monitor” on page 87.

Screen

To minimize screen reflection, its surface has a special coating. Read the instructions “Cleaning the Screen Surface” on page 14 carefully before cleaning.

Inappropriate cleaning methods could damage the screen’s finish.

Projection lamp

Your LCD projection TV uses a projection lamp as its light source. Note the following:

- ❑ After turning on your LCD projection TV, it may take a while before the picture appears (up to 1 minute).
 - ❑ When the projection lamp wears out, the screen goes dark. Replace the lamp with a new Sony XL-2100U or XL-2100 replacement lamp (not supplied).
- 🔧 After replacing the lamp, be sure to attach the lamp cover securely; otherwise, your LCD projection TV will not turn on. For details on lamp replacement, see “Replacing the Lamp” on page 15.
 - 🔧 The light emitted from the lamp is quite bright when your LCD projection TV is in use. To avoid eye discomfort or injury, do not look into the housing when the power is on.

Notes on the LCD Projection TV

To enjoy clear pictures

- ❑ Be sure not to allow sunlight or light from a lamp to shine directly onto the screen.
- ❑ The screen surface is easily scratched. Do not rub, touch, or tap it with a sharp or abrasive object (see “Cleaning the Screen Surface” below).

On moisture condensation

- ❑ If your LCD projection TV is moved directly from a cold to a warm location, is placed in a humid room, or if the room temperature changes suddenly, the picture may blur or show poor color. This is caused by moisture condensation on the lenses inside. If this happens, leave the power on and let the moisture evaporate before using your LCD projection TV.

When not using the LCD projection TV for a long period of time

- ❑ Turn off the main power on the front of your LCD projection TV before going to sleep or going out. Disconnect the AC plug if idle for more than seven days.

When turning off the power

- ❑ The fan will continue to blow for about two minutes after turning off the power on the main unit or the remote control. Allow several minutes before unplugging from the outlet or switching the breaker off.

Before carrying the LCD projection TV

- ❑ Disconnect all connections.

Cleaning the Screen Surface

To remove dust on the screen, wipe with a soft cloth.

- ✎ Do not use any type of abrasive pad, alkaline cleaner, scouring powder, window cleaners or solvent such as alcohol or benzene. Using these types of products may damage the screen.
- ✎ To clean the screen, use the cloth lightly moistened with mild detergent solution diluted with water. Use gentle pressure when cleaning.

Replacing the Lamp


The projection lamp, which illuminates the picture, has a limited life.

If the screen becomes dark, the color looks unusual, or the LAMP indicator on the front of the LCD projection TV flashes, it is time to replace the lamp with a new one (not supplied).



WARNING

Electric appliances can cause fire or high temperature, resulting in injury or death. Be sure to follow the instructions below.

- ❑ Use a Sony XL-2100U or XL-2100 replacement lamp (not supplied) for replacement. Use of any other lamp may damage the LCD projection TV.
 - ❑ Do not remove the lamp for any purpose other than replacement. Doing so may cause injury or fire.
 - ❑ Before replacing the lamp, turn the power off on the main unit. Wait several minutes, then unplug the power cord. (The cooling fan will continue to blow for about two minutes after turning the power off.)
 - ❑ Allow the lamp to cool down completely before removing it. The surface of the lamp remains extremely hot for at least 30 minutes after the power has been turned off.
 - ❑ Do not put flammable materials and metal objects inside the lamp receptacle of the LCD projection TV after removing the lamp. Doing so may cause fire or electrical shock.
 - ❑ To avoid being burned, do not touch the receptacle.
 - ❑ Mount the new lamp securely. Failure to do so may cause a fire or the screen to go dark.
 - ❑ Do not touch the glass of the new lamp with your fingers.
-  Avoid touching the front glass of a new lamp as this may reduce picture quality or lamp life.


(Continued)

The Used Lamp

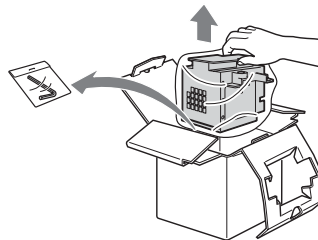
For customers in the United States:

This product contains mercury. Disposal of this product may be regulated if sold in the United States. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance (<http://www.eiae.org>).

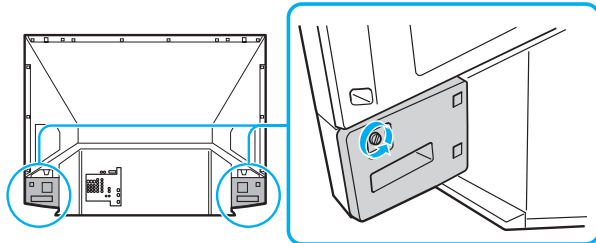
- ❑ Do not leave the used lamp near flammable materials or within the reach of children.
 - ❑ Do not pour water onto the used lamp or put any object inside the lamp. Doing so may cause the lamp to burst.
- 1** Turn off the power on the main unit. Wait several minutes, then unplug the power cord.
(The cooling fan will continue to blow for about two minutes after turning the power off.)

 Avoid touching the front glass of a new lamp or the glass of the lamp receptacle. This may reduce picture quality or lamp life.

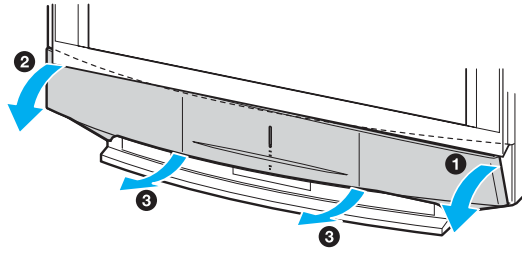
- 2** Wait at least 30 minutes after unplugging the power cord to allow the lamp to cool down before replacing it.
Take the new lamp out of the box.




- 3** Loosen the screws on the rear side panel.

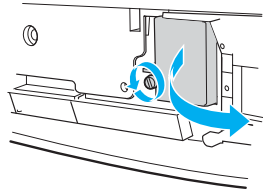


- 4** Remove the front panel.

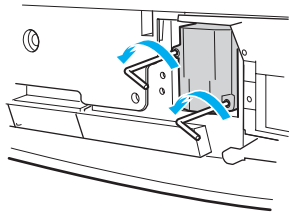


 The front panel cover is securely attached to the cabinet. Pull firmly on the cover in the numbered order (see illustration) with both hands to release it.

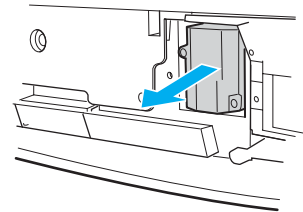
- 5** Loosen the screw on the lamp cover with a coin or similar object to remove it.




- 6** Loosen the two screws that secure the lamp, then pull out the lamp. The lamp is very hot immediately after use. Never touch the front glass of the lamp or the surrounding parts.



Loosen the two screws with the hex key supplied with the lamp.

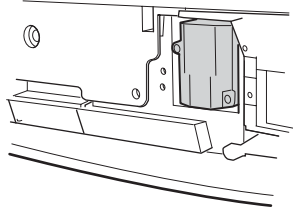


Hold the handle and pull straight out.

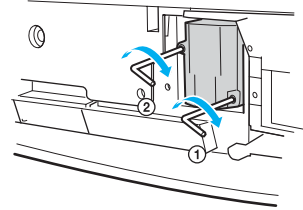
 After it has cooled, place the used lamp into the empty box of the replacement lamp. Never put the used lamp into a plastic bag.

(Continued)

- 7** Mount the new lamp.
Be sure to attach the new lamp securely.

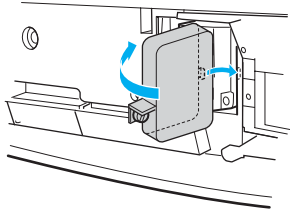


Reattach the new lamp securely into the lamp receptacle.

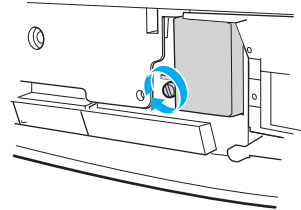


Tighten the two screws securely first ①, then ② with the supplied hex key, as shown in the illustration.

- 8** Reattach the lamp cover and tighten the screws.
Make sure the lamp cover is reattached securely, otherwise the power will not turn on.

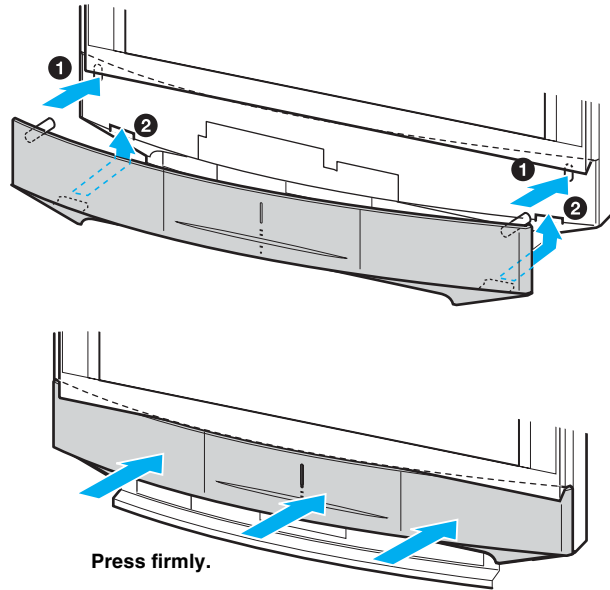


Align the right side of the lamp cover with the hole on the unit, and replace the lamp cover in its original position.

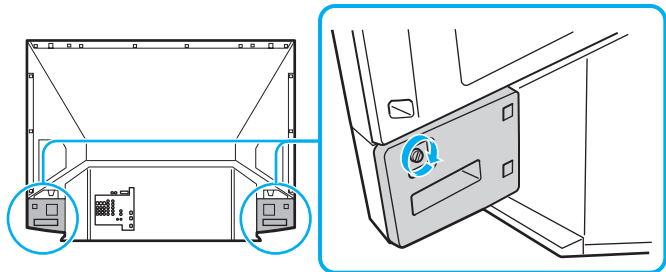




- ⚠ If the screw of the lamp cover is slanted, the lamp may not light up properly. In such a case, take out the screw and reinsert it straight into the screw hole, then tighten the screw completely.
- ⚠ If the lamp cover is not reattached securely, the self-diagnostic function may be triggered and the POWER/STANDBY indicator flashes three times (see page 87).

9 Reattach the front panel securely.



10 Reattach the rear side panel and tighten the screws.



-  Consult your Sony dealer for a Sony XL-2100U or XL-2100 replacement lamp.
-  Take great care when replacing the lamp or plugging in/unplugging the connecting cords. Rough handling may cause the LCD projection TV to fall, damaging the TV, the TV stand and/or the floor.

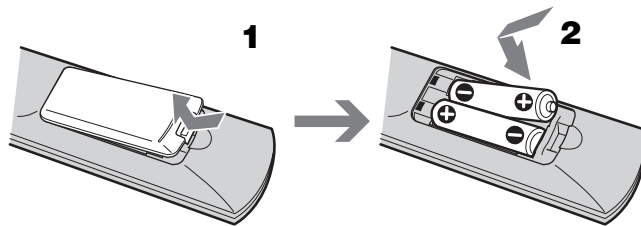
Installing and Connecting the LCD Projection TV




Contents

The box contains your new LCD projection TV, a remote control and two AA batteries. No peripheral cables are included. If you intend to add additional equipment to your LCD projection TV, please check the hookup instructions for your desired setup before you begin. You may need to purchase cables and/or splitters to complete the hookup properly.

Inserting Batteries into the Remote Control

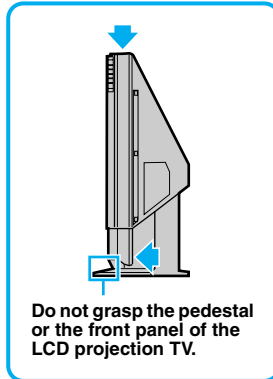
- 1** Remove the battery cover from the remote control.
- 2** Insert two size AA batteries (supplied) by matching the **+** and **-** on the batteries to the diagram inside the battery compartment.



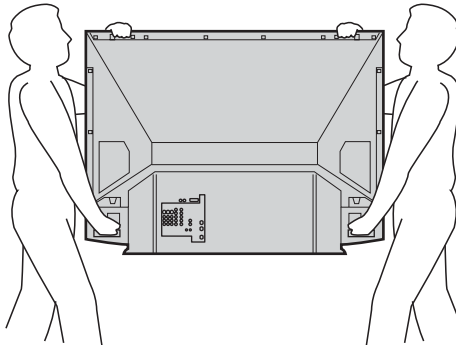
-  To avoid possible battery leak damage, remove the batteries if you anticipate the remote control will not be used for an extended period.
-  Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater, or in high humidity.
-  Your remote control can be programmed to operate most video equipment. (See “Programming the Remote Control” on page 77.)

Carrying Your LCD Projection TV

Carrying the LCD projection TV requires at least two people. Do not hold the pedestal or the front panel of the LCD projection TV. Doing so may cause these parts to break off.



When moving the LCD projection TV, place one hand in the hole on the lower portion of the TV while grasping the top with the other hand, as shown in the illustration below.



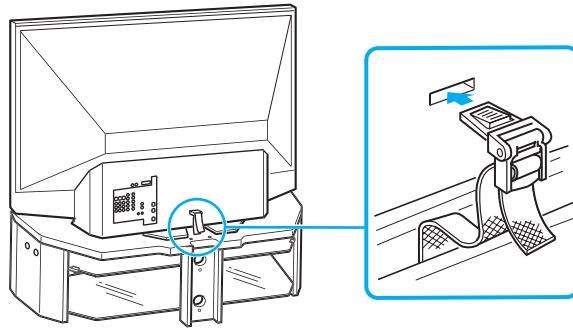
To Prevent the LCD Projection TV from Falling

To ensure the safety of children and the LCD projection TV, keep children away from the TV during installation. Climbing on or pushing the LCD projection TV or its stand may cause it to fall.

As a protective measure, secure the LCD projection TV as follows.

Using the LCD projection TV stand with support belts

- You can also use the LCD projection TV stand model SU-GW11/SU-GW1 (for KF-50WE620, not supplied), or model SU-GW11/SU-GW2 (for KF-42WE620, not supplied) with a support belt.



When Installing Your LCD Projection TV Against a Wall

Keep your LCD projection TV at least 4 inches (10 cm) away from the wall to provide proper ventilation.

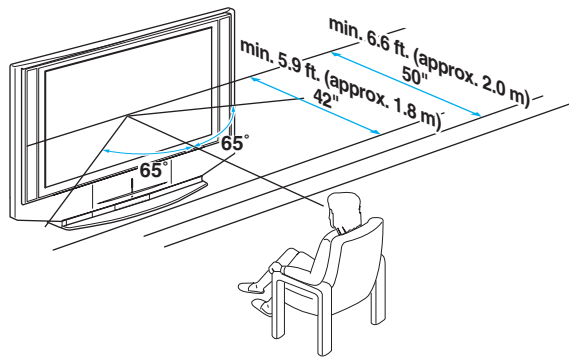
Recommended Viewing Area

Your viewing position may affect the picture quality.

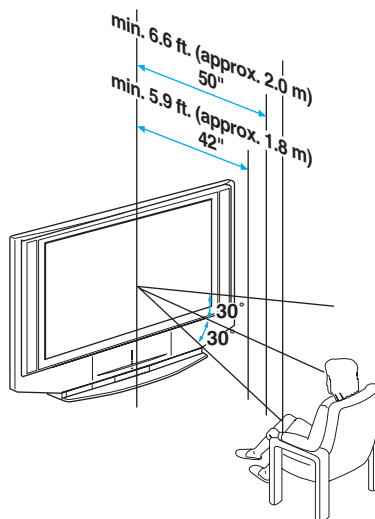
For the best picture quality, install your LCD projection TV within the areas shown below.

| <i>Model</i> | <i>Viewing distance</i> |
|--------------|------------------------------|
| KF-42WE620 | min. 5.9 ft. (approx. 1.8 m) |
| KF-50WE620 | min. 6.6 ft. (approx. 2.0 m) |

Horizontal Viewing Area

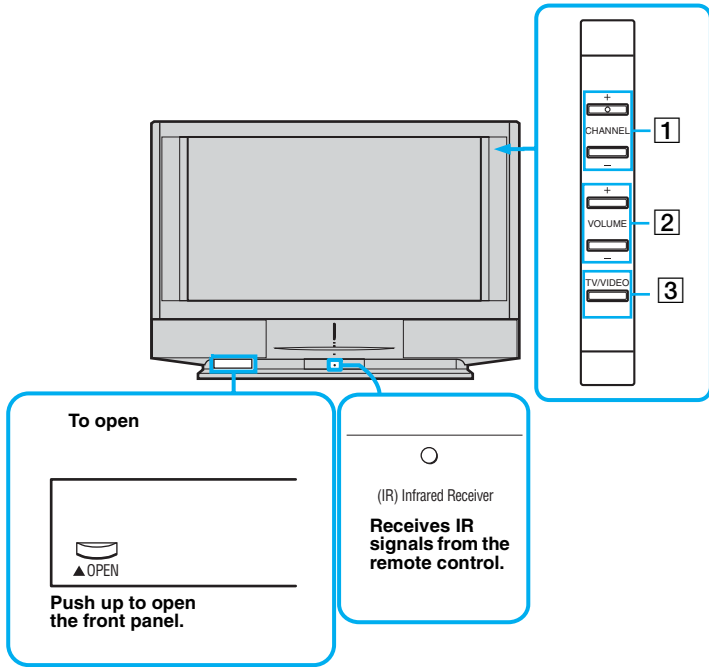


Vertical Viewing Area



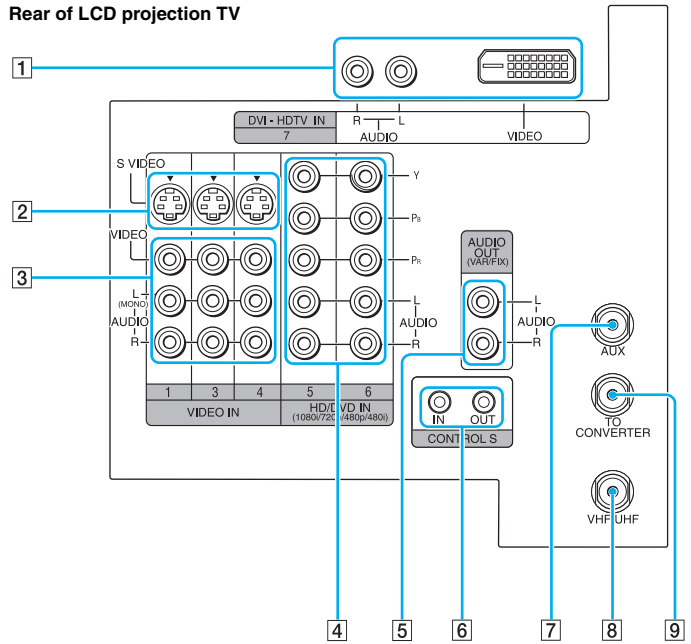
LCD Projection TV Connectors

LCD Projection TV Front Controls and Connectors

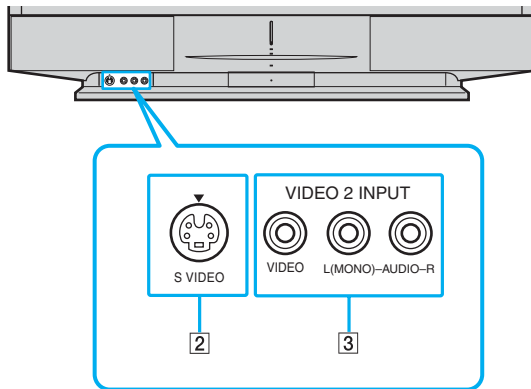


| Button | Description |
|---------------|--|
| 1 CHANNEL +/- | Press to scan through channels. |
| 2 VOLUME +/- | Press to adjust the volume. |
| 3 TV/VIDEO | Press to select the TV or other video equipment. |

LCD Projection TV Rear Side Connectors



Front side of LCD projection TV



| Connection | Description |
|---|--|
| 1 DVI-HDTV VIDEO AUDIO R/L (VIDEO 7 IN) | Can accommodate a copy-protected digital connection (HDCP*) to other devices (such as digital TV receivers) that have compatible interfaces. The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers. See the instruction manual that came with your equipment for details about connecting and using it with the LCD projection TV. |
| 2 S VIDEO (Rear and front) | Connects to the S VIDEO OUT jack of your VCR or other S VIDEO-equipped video component. Provides better picture quality than the VHF/UHF jacks or the Video IN jack. |
| 3 VIDEO/ (L/R) AUDIO (Rear and front) | Connects to the audio and video OUT jacks on your VCR or other video component. A fourth video input (VIDEO 2) is located on the front panel of the LCD projection TV. |
| 4 HD/DVD IN (1080i, 720p, 480p, 480i) | Connects to your DVD player's or digital TV receiver's component video (Y, PB, PR) and audio (L/R) jacks. |
| 5 AUDIO OUT (VAR/FIX) L/R | Connects to the left and right audio inputs of your audio or video component. |
| 6 CONTROL S IN/OUT | <p>To control other Sony equipment with the LCD projection TV's remote control, connect the CONTROL S IN jack of the equipment to the CONTROL S OUT jack on the LCD projection TV with the CONTROL S cable.</p> <p>To control the LCD projection TV with a remote control of another Sony product, connect the CONTROL S OUT jack of the equipment to the CONTROL S IN jack on the LCD projection TV with the CONTROL S cable.</p> |
| 7 AUX | Allows you to view local and cable channels if your cable provider does not feature local channels. You can switch between local and cable channels easily by pressing ANT on the remote control. Devices connected to the AUX input cannot be viewed in the right picture of Twin View. |
| 8 VHF/UHF (Primary RF input) | Connects to your VHF/UHF antenna or cable. |
| 9 TO CONVERTER | This TO CONVERTER (VHF/UHF OUT) jack lets you set up your LCD projection TV to switch between scrambled channels (through a cable box) and normal cable channels (CATV). Use this jack instead of a splitter to get better picture quality when switching between scrambled and unscrambled cable channels. |

* High-bandwidth Digital Content Protection

Connector Types

You may find it necessary to use some of the following connector types during set up.

Coaxial cable

Standard TV cable and antenna cable

Plug Type



Screw-on Type



S Video cable

High quality video cable for enhanced picture quality



A/V cable



Video - Yellow

Audio (Left) - White

Audio (Right) - Red

Component video cable

Some DVD players are equipped with the following three video connectors:



Y - Green

P_B (C_B, C_b or B-Y) - Blue

P_R (C_R, C_r or R-Y) - Red

CONTROL S cable

CONTROL S connections are exclusive to Sony products and allow greater control of all Sony equipment.



DVI-D single link cable

For a device, such as a digital TV receiver




Basic Connections (Connecting Cable TV or Antenna)

Connecting Directly to Cable or an Antenna

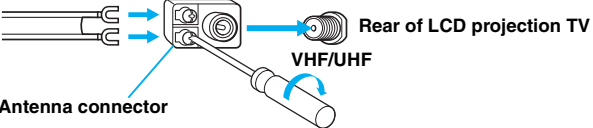
The connection you choose depends on the cable found in your home. Newer homes are equipped with standard coaxial cable (see **A**); older homes probably have 300-ohm twin lead cable (see **B**); other homes may contain both (see **C**).

A VHF Only or VHF/UHF or Cable

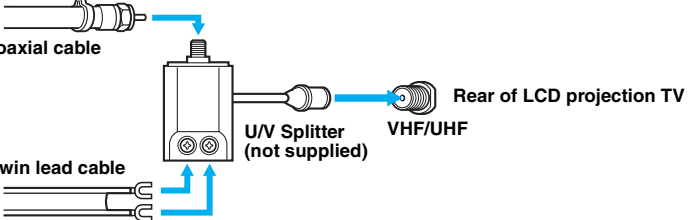
75-ohm coaxial cable  Rear of LCD projection TV
VHF/UHF


B VHF Only or UHF Only or VHF/UHF


300-ohm twin lead cable

 Rear of LCD projection TV
VHF/UHF
Antenna connector

C VHF and UHF

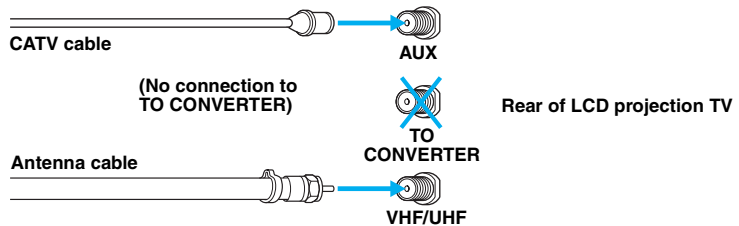
75-ohm coaxial cable  Rear of LCD projection TV
VHF/UHF
U/V Splitter (not supplied)
300-ohm twin lead cable

 For optimum picture quality, a 75-ohm coaxial cable antenna connection is highly recommended. Radio waves and other interference can easily affect a 300-ohm twin lead cable, resulting in signal deterioration. If you use a 300-ohm twin lead cable, keep it as far away as possible from the LCD projection TV.


 Do not use an indoor antenna; they are especially susceptible to radio noise.

Cable and Antenna

If your cable provider does not feature local channels, you may find this set up convenient.



Select CABLE or antenna (ANT) mode by pressing ANT on the remote control.

 To receive channels using an antenna, set Cable to Off (see page 67) and perform the Auto Program function (see page 67).

Cable Box Connections

Cable Box and Cable

This is the preferred basic cable TV hookup to use if:

- ❑ Your cable TV company scrambles some channels, but not all of them (pay channels vs. regular cable channels) and you need to use a cable box.
- ❑ You want to enjoy the Twin View feature.

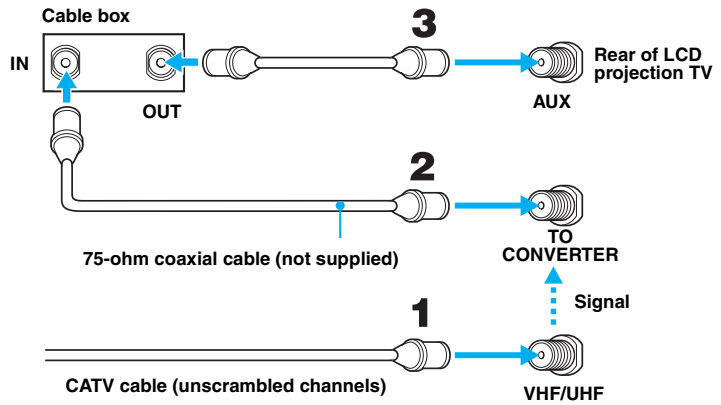
With this setup you can:


- ❑ Use the LCD projection TV remote control to change channels on your cable box when the signal is scrambled.
- ❑ Use the LCD projection TV remote control to change channels on your LCD projection TV when the signal is not scrambled. (Your LCD projection TV's tuner provides a better signal than the cable box.)
- ❑ Use the Twin View feature. (When all channels are routed through your cable box, only one channel is sent to the LCD projection TV, so you cannot use the Twin View feature from your cable box.)

1 Connect a coaxial cable from your cable service to the LCD projection TV's VHF/UHF jack.

2 Using a coaxial cable, connect the LCD projection TV's TO CONVERTER jack to the cable box's IN jack. The LCD projection TV's internal converter allows you to switch between unscrambled signals coming straight into the LCD projection TV and scrambled signals coming in through the cable box, eliminating the need for an external splitter.

- Using a coaxial cable, connect the cable box's OUT jack to the LCD projection TV's AUX jack.



 Pressing ANT on the remote control switches between the channels coming in through the cable box (scrambled) and those coming directly to the LCD projection TV (unscrambled).

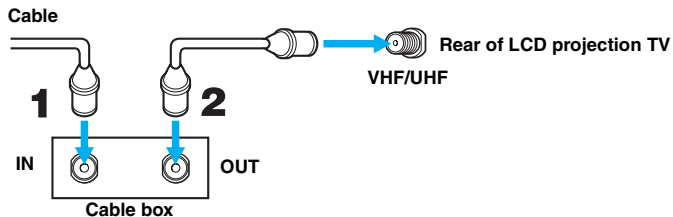
Cable Box Only

Use this hookup if:


- ❑ You subscribe to a cable TV system that uses scrambled or encoded signals requiring a cable box to view all channels.
- ❑ You do not intend to hook up any other audio or video equipment to your LCD projection TV.


When all channels are routed through your cable box, only one unscrambled channel is sent to the LCD projection TV, so you cannot use the Twin View feature. If some channels are scrambled, but others are not, consider using the hookup on page 30 instead.


- 1** Connect the coaxial cable from your cable service to the cable box's IN jack.
- 2** Using a coaxial cable, connect the cable box's OUT jack to the LCD projection TV's VHF/UHF jack.



Also, set **Cable** to **On** in the Channel menu (see page 67).

 Your Sony remote control can be programmed to operate your cable box (see “Programming the Remote Control” on page 77).

 To change channels using the cable box, set your LCD projection TV to channel 2 - 6 depending on the cable box channel output. If you will be controlling all channel selection through your cable box, consider using the Channel Fix feature to set your LCD projection TV to channel 3 or 4 (see page 67).

 Setting the Channel Fix feature in the Channel menu (see “Selecting Channel Options” on page 67) ensures that you do not accidentally switch the channels on your LCD projection TV.

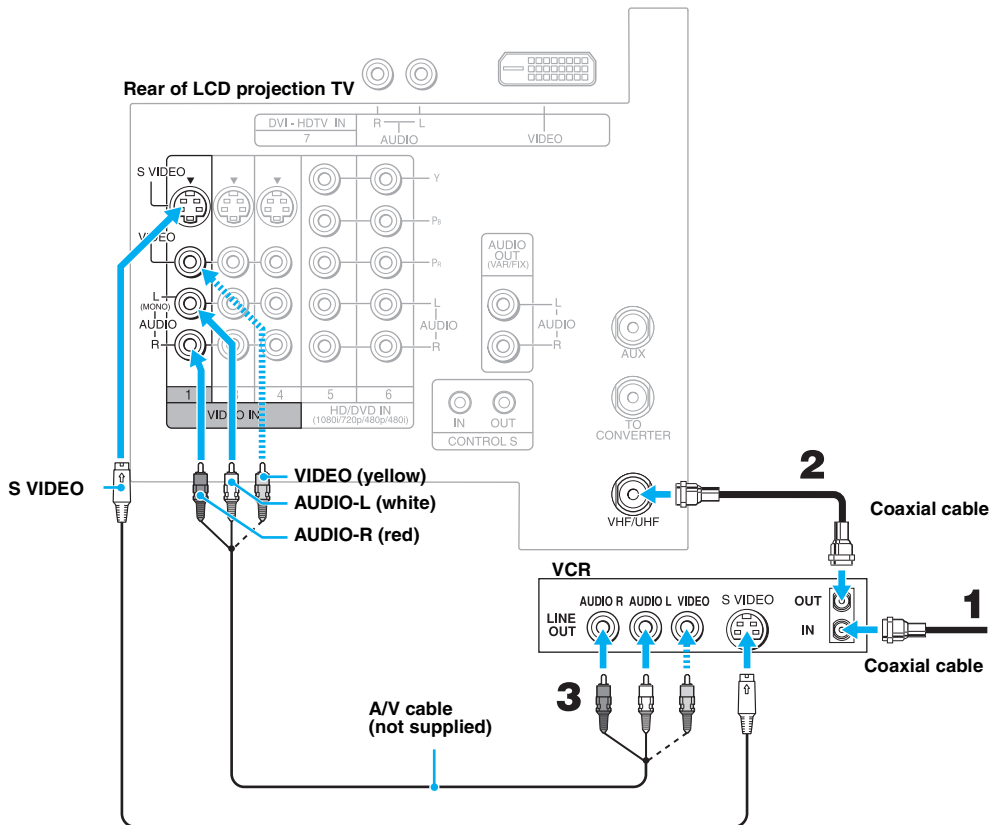
Connecting a VCR and Cable


Use this hookup if:

- You have cable TV that does not require a cable box.

Disconnect all power sources before making any connections.

- 1** Connect the coaxial cable from your cable service to the VCR's IN jack.
- 2** Using a coaxial cable, connect the VCR's OUT jack to the LCD projection TV's VHF/UHF jack.
- 3** Using A/V and S VIDEO cables, connect the VCR's AUDIO and S VIDEO OUT jacks to the LCD projection TV's AUDIO/VIDEO and S VIDEO IN jacks.



 If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Connecting a VCR and Cable Box

Use this hookup if:


- ❑ Your cable TV company scrambles some channels, but not all of them (pay channels vs. regular cable channels) and you need to use a cable box.
- ❑ You want to enjoy the Twin View feature.

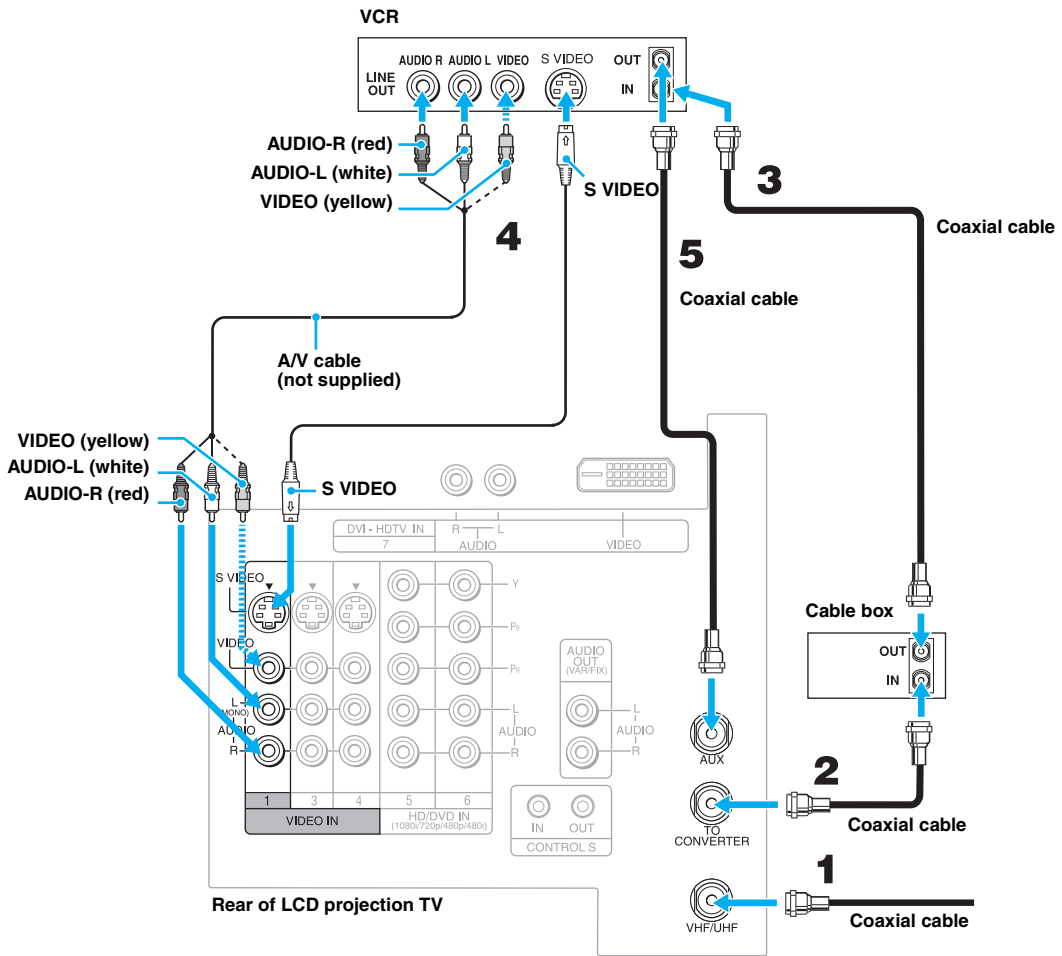
With this setup you can:

- ❑ Use the LCD projection TV remote control to change channels on your cable box when the signal is scrambled. To program your Sony remote control to operate your cable box, see “Programming the Remote Control” on page 77.
- ❑ Use the LCD projection TV’s remote control to change channels on your LCD projection TV when the signal is not scrambled. Your LCD projection TV’s tuner provides a better signal than the cable box.
- ❑ Use the Twin View feature. (When all channels are routed through your cable box, only one signal is sent to the LCD projection TV, so you cannot use the Twin View feature.)

Disconnect all power sources before making any connections.

- 1** Connect the coaxial cable from your cable service to the LCD projection TV’s VHF/UHF jack.
- 2** Using a coaxial cable, connect the LCD projection TV’s TO CONVERTER jack to the cable box’s IN jack. The LCD projection TV’s internal converter allows you to switch between unscrambled signals coming straight into the LCD projection TV and scrambled signals coming in through the cable box, eliminating the need for an external splitter.
- 3** Using a coaxial cable, connect the cable box’s OUT jack to the VCR’s IN jack.
- 4** Using A/V and S VIDEO cables, connect the VCR’s AUDIO/VIDEO and S VIDEO OUT jacks to the LCD projection TV’s AUDIO/VIDEO and S VIDEO IN jacks.
- 5** Using a coaxial cable, connect the VCR’s OUT jack to the LCD projection TV’s AUX jack.

 To view scrambled channels, set your LCD projection TV to AUX 2 - 6 (depending on your cable box output). Change channels using your cable box.



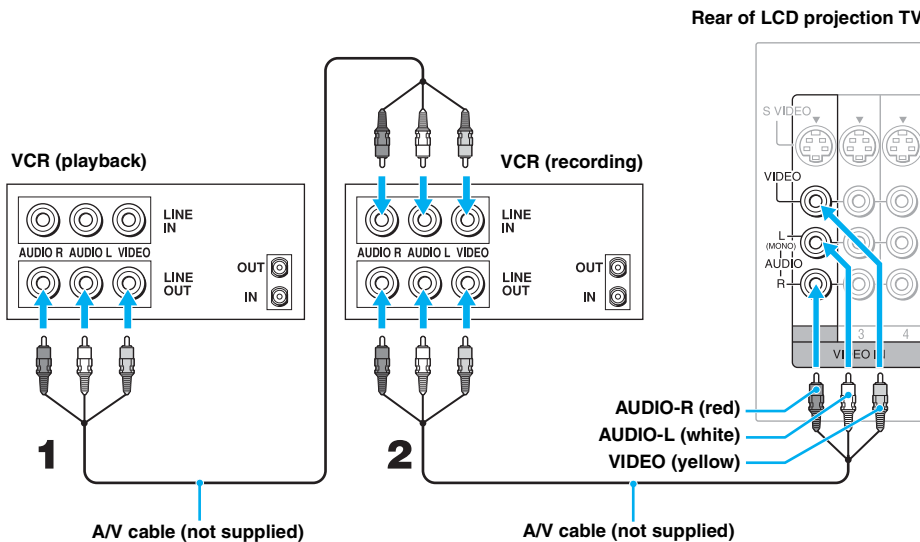
- 🔧 If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.
- 🔧 You will not be able to change channels on the VCR. Set your LCD projection TV and VCR to channel 2 - 6, depending on your cable box channel output.
- 🔧 Pressing ANT on the remote control switches between the channels coming in through the cable box (scrambled) and those coming directly to the LCD projection TV (unscrambled).

Connecting Two VCRs for Tape Editing

If you connect two VCRs, you can record from one VCR to the other while using your LCD projection TV to monitor what is being recorded.

Disconnect all power sources before making any connections.

- 1 Using A/V cables, connect the playback VCR's AUDIO/VIDEO OUT jacks to the recording VCR's AUDIO/VIDEO IN jacks.
- 2 Using A/V cables, connect the recording VCR's AUDIO/VIDEO OUT jacks to the LCD projection TV's AUDIO/VIDEO IN jacks.




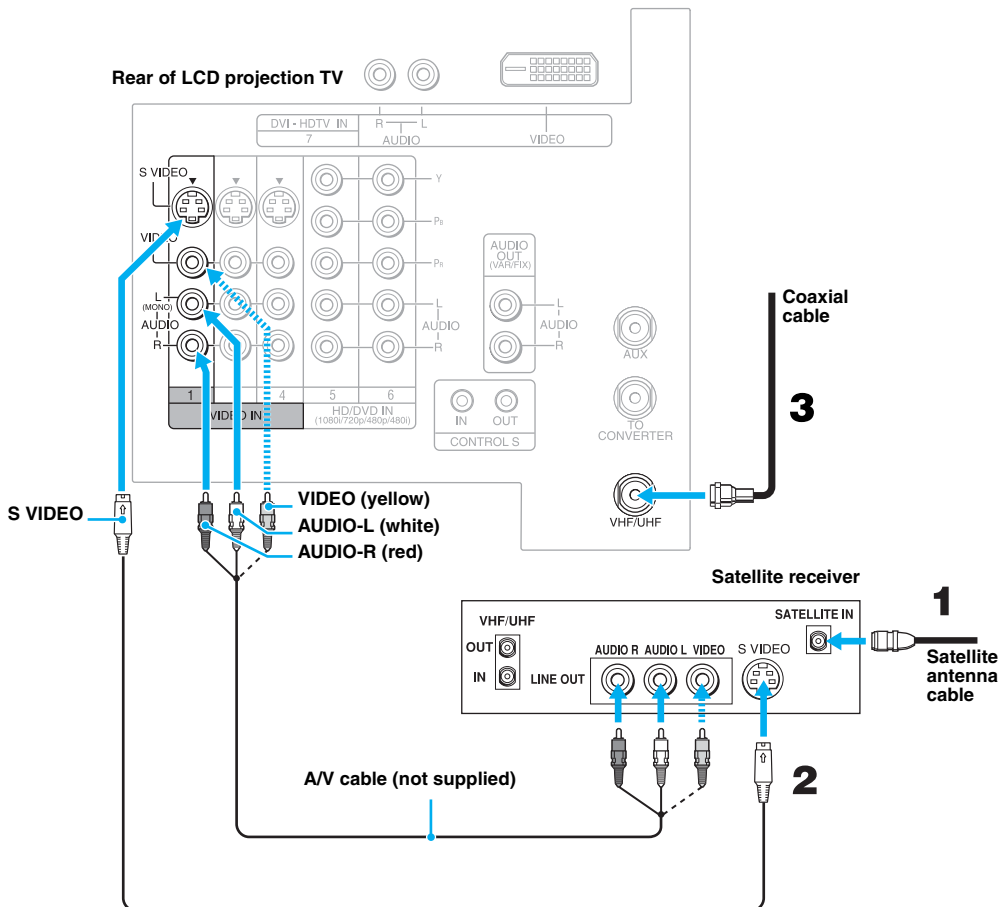
- ✎ To perform tape editing, set the LCD projection TV to the video input intended for playback by pressing TV/VIDEO on the remote control.
- ✎ You may need to change the video input on your VCR. Consult your VCR's operating manual for instructions.
- ✎ If your VCRs have S VIDEO jacks: For best picture quality, use an S VIDEO connection instead of the yellow video cable on your combined A/V cable.
Using an S VIDEO cable, connect the playback VCR's S VIDEO OUT jack to the recording VCR's S VIDEO IN jack. S VIDEO does not provide audio, so audio cables must be connected to provide sound.
- ✎ You cannot record signals from equipment connected to the Y, P_B, P_R input.

Connecting a Satellite Receiver

Disconnect all power sources before making any connections.

- 1** Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.
- 2** Using A/V and S VIDEO cables, connect the satellite receiver's AUDIO/VIDEO and S VIDEO OUT jacks to the LCD projection TV's AUDIO/VIDEO and S VIDEO IN jacks.
- 3** Connect a coaxial cable from your cable or antenna to the LCD projection TV's VHF/UHF jack.

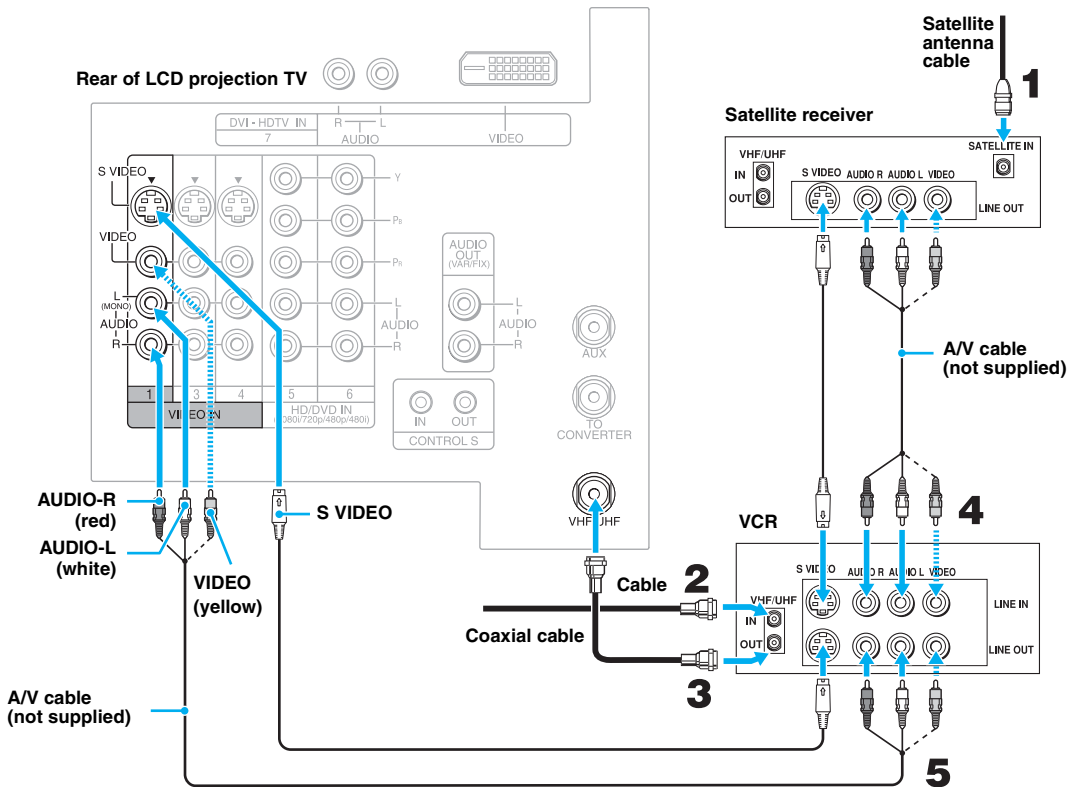
 If your satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.






Connecting a Satellite Receiver with a VCR

Disconnect all power sources before making any connections.

- 1 Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.
- 2 Connect the CATV cable to the VCR's VHF/UHF IN jack.
- 3 Using a coaxial cable, connect the VCR's VHF/UHF OUT jack to the LCD projection TV's VHF/UHF jack.
- 4 Using A/V and S VIDEO cables, connect the satellite receiver's AUDIO/VIDEO and S VIDEO OUT jacks to the VCR's AUDIO/VIDEO and S VIDEO IN jacks.
- 5 Using A/V and S VIDEO cables, connect the VCR's AUDIO/VIDEO and S VIDEO OUT jacks to the LCD projection TV's AUDIO/VIDEO and S VIDEO IN jacks.

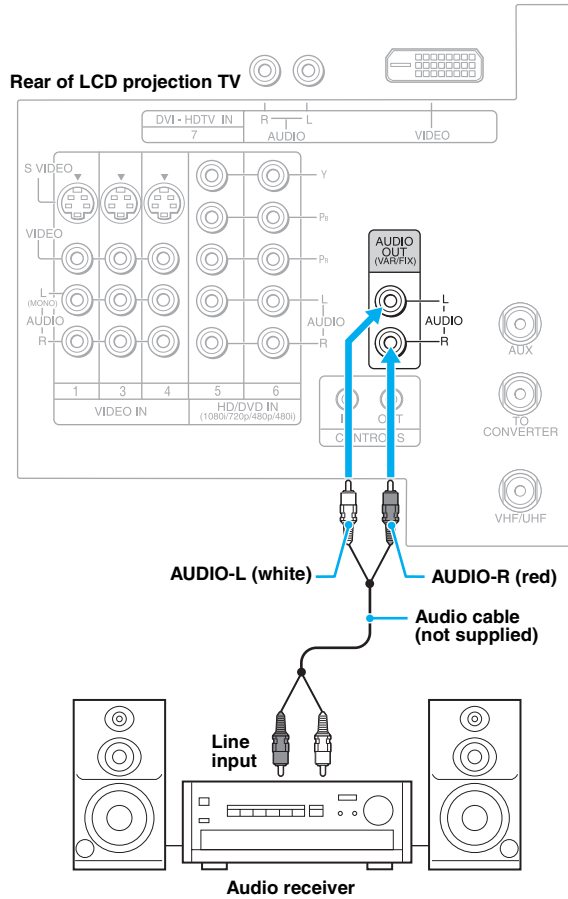


-  Be sure your VCR's video input is set correctly. Consult your VCR's operating manual for instructions.
-  Use TV/VIDEO to select
 - VIDEO 1 to watch satellite TV or the VCR (your VCR must be turned on).
 - VHF/UHF to watch cable TV.
-  If your VCR or satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Connecting an Audio Receiver

Disconnect all power sources before making any connections.

Using audio cables, connect the LCD projection TV's AUDIO/VIDEO OUT (VAR/FIX) jacks to the audio receiver's audio LINE IN jacks.




Connecting a DVD Player with Component Video Connectors

This is the preferred hookup to use if:

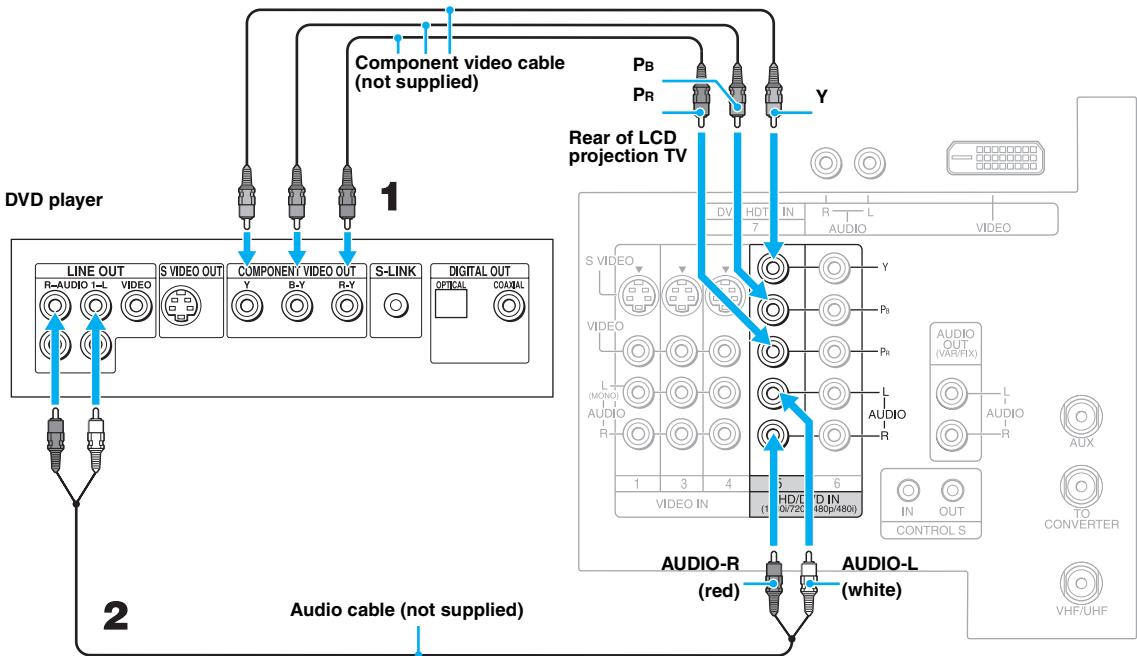
- ❑ Your DVD player has component (Y, B-Y, R-Y) jacks.


Disconnect all power sources before making any connections.

- Using three separate component video cables, connect the DVD player's Y, B-Y and R-Y jacks to the Y, PB and PR jacks on the LCD projection TV. Use the HD/DVD IN 5 or 6 inputs.

 The Y, B-Y and R-Y jacks on your DVD player are sometimes labeled Y, C_B and C_R, or Y, P_B and P_R. If so, connect the cables to like colors.

- Using audio cables, connect the DVD player's AUDIO OUT jacks to the LCD projection TV's AUDIO IN jacks. Be sure to use the same row of inputs that you used for the video connection (HD/DVD IN 5 or 6).



 To take advantage of the Wide Screen modes, set the TV's aspect ratio to 16:9 on your DVD player. For details, refer to the operating instructions supplied with your DVD player.

Connecting a DVD Player with A/V Connectors

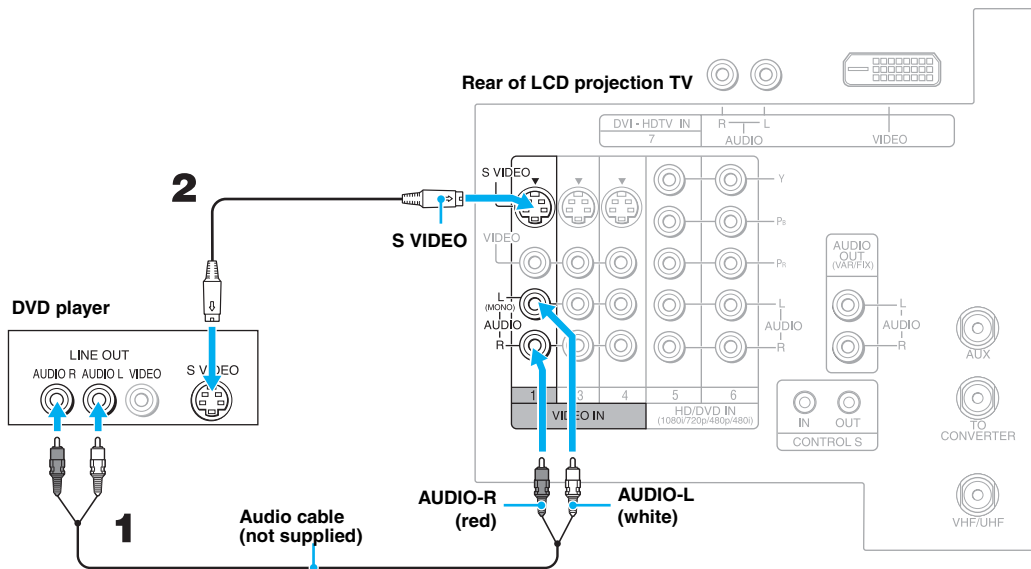
Use this hookup if:

- Your DVD player does not have component (Y, PB, PR) jacks.

✎ If your DVD player has video component output connectors: for best picture quality use the connection described on page 41.

Disconnect all power sources before making any connections.

- 1** Using audio cables, connect the DVD player's AUDIO OUT jacks to the LCD projection TV's AUDIO IN jacks.
- 2** Using a S VIDEO cable, connect the DVD player's S VIDEO jack to the LCD projection TV's S VIDEO jack.



✎ To take advantage of the wide screen modes, set the TV's aspect ratio to 16:9 on your DVD player. For details, refer to the operating instructions supplied with your DVD player.

✎ Use TV/VIDEO on the remote control to switch between the VCR, DVD player and cable TV inputs.


✎ If your DVD player is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.


Connecting a Digital TV Receiver with Component Connectors

Disconnect all power sources before making any connections.

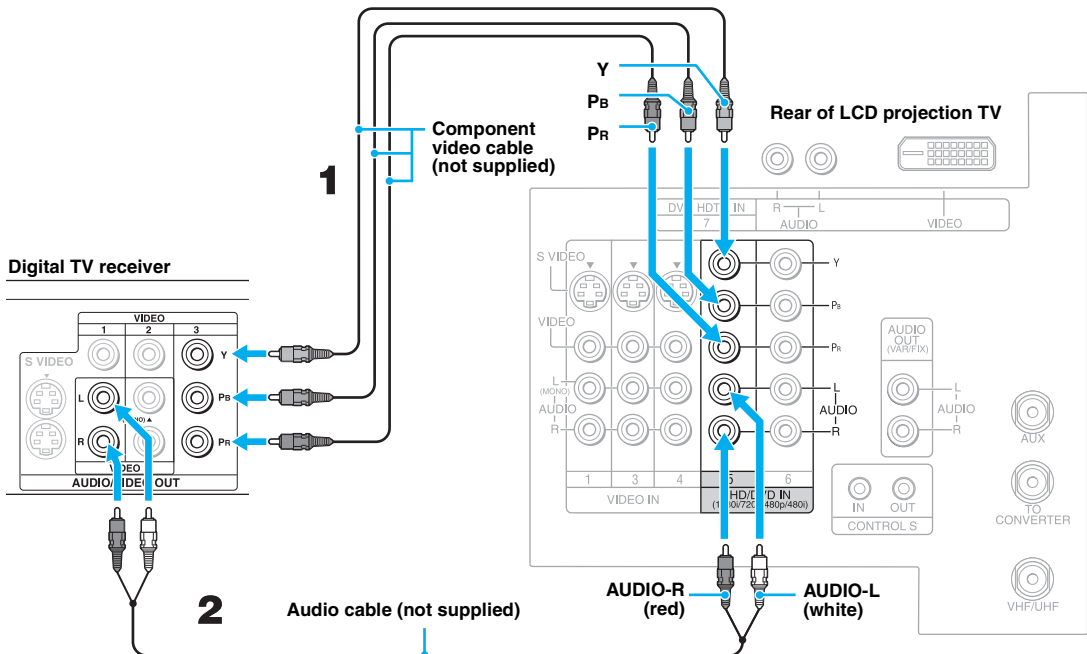
 Be sure to read the digital TV receiver's manual.


1 Using three separate component video cables, connect the digital TV receiver's Y, P_B and P_R jacks to the LCD projection TV. Use the HD/DVD IN 5 or 6 inputs.


 The Y, P_B and P_R jacks do not provide audio, so audio cables must be connected to provide sound.

 Component video connection is necessary to view 480i, 480p, 720p, and 1080i formats. For 480i signal, you may also use the S VIDEO or composite video connections, however, component video (Y, P_B, P_R) will provide the best picture quality for all format types.

2 Using audio cables, connect the digital TV receiver's AUDIO OUT jacks to the LCD projection TV's AUDIO/VIDEO IN jacks (HD/DVD IN 5 or 6).



 You cannot record the signal from any equipment connected into the Y, P_B and P_R connectors.


 This LCD projection TV is not compatible with digital TV receivers configured with RGB or VGA output connectors.

Connecting a Digital TV Receiver with DVI-HDTV Connector

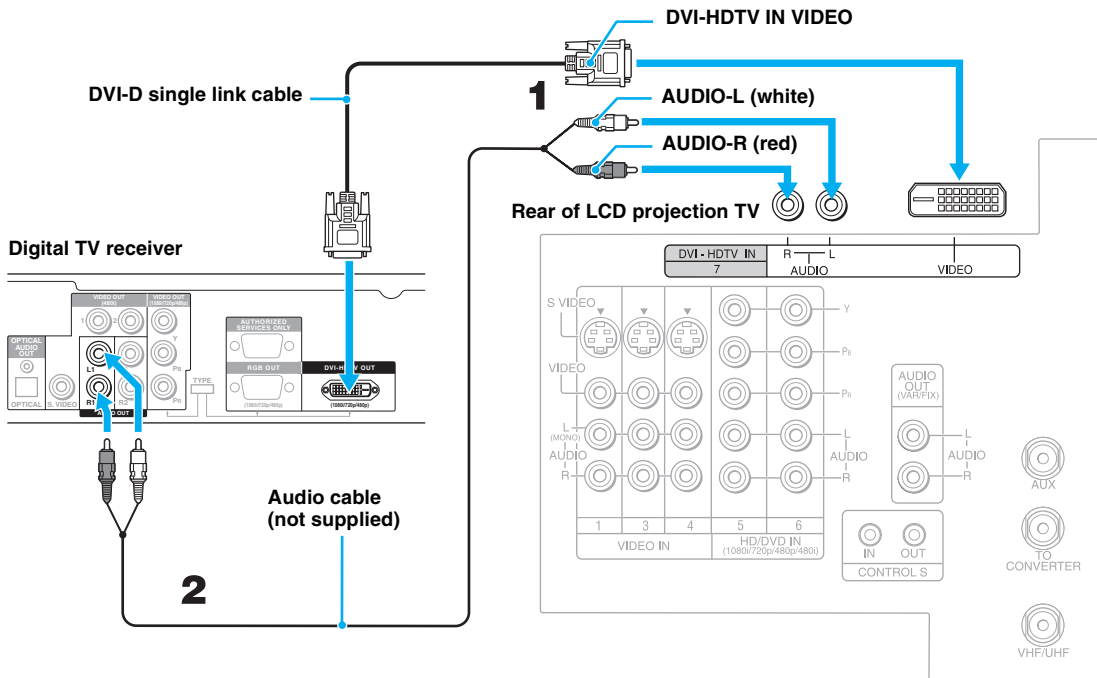
Disconnect all power sources before making any connections.

 Be sure to read the digital TV receiver's manual.

1 Using a DVI-D single link cable, connect the digital TV receiver's DVI-HDTV connector to the LCD projection TV's DVI-HDTV VIDEO jack.

 The DVI-HDTV VIDEO connector does not provide audio, so audio cables must be connected to provide sound.



2 Using an audio cable, connect the digital TV receiver's AUDIO OUT jacks to the LCD projection TV's DVI-HDTV AUDIO jacks.

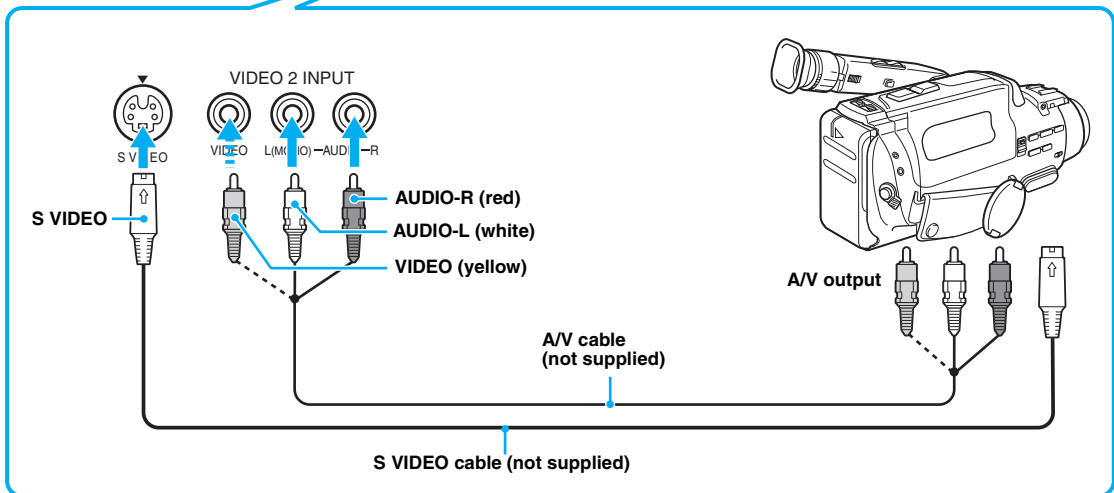
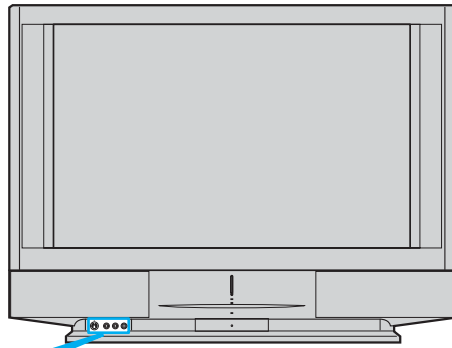


Connecting a Camcorder

For easy connection of a camcorder, the LCD projection TV has front audio and video inputs (shown below). However, if you prefer, you can also connect the camcorder to the LCD projection TV's rear AUDIO and VIDEO IN jacks.

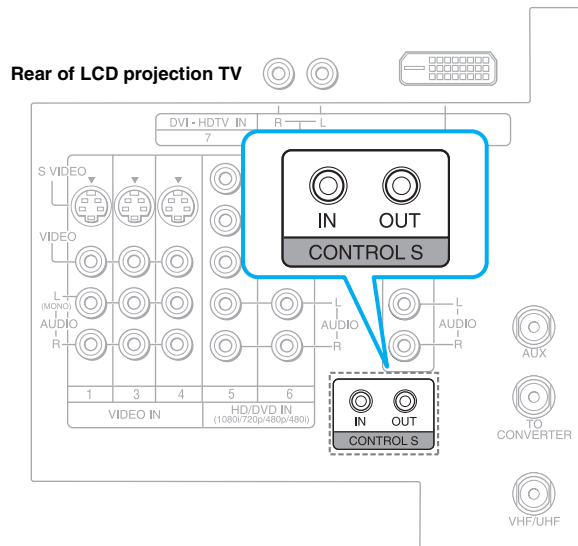
Using A/V and S VIDEO cables, connect the camcorder's AUDIO/VIDEO and S VIDEO OUT jacks to the LCD projection TV's AUDIO/VIDEO and S VIDEO IN jacks.

-  If you have a mono camcorder, connect its left audio output to the LCD projection TV's AUDIO L (MONO) jack.
-  If your camcorder is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.




Using the CONTROL S Feature

CONTROL S allows you to control your LCD projection TV system and other Sony equipment with one remote control. In addition to allowing you to control multiple devices with one remote control, the CONTROL S feature allows you to always point your remote control at your LCD projection TV, instead of having to point it at the other equipment, which might be hidden or out of direct line of sight.




Setting Up the LCD projection TV Automatically

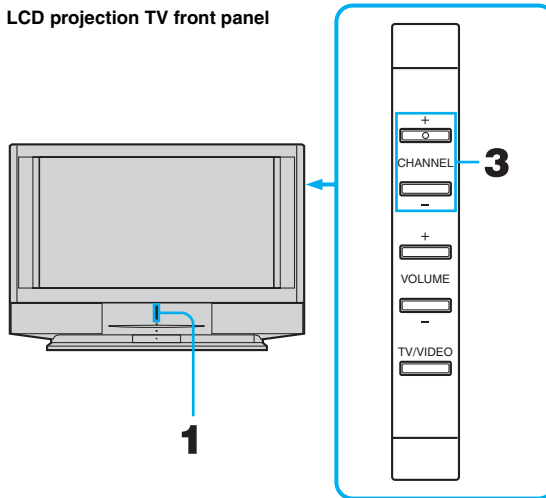
After you finish connecting your LCD projection TV, you can run Auto Setup to set up your channels. The Auto Setup screen appears when you turn your LCD projection TV on for the first time after installing it. If you do not want to set up the channels at this time or are using an antenna, you can do it later by using the Auto Program feature in the Channel menu (see page 67).


 The Auto Setup feature does not apply for installations that use a cable box for all channel selection.

Using Auto Setup

- 1** Press POWER on the front panel of your LCD projection TV or on the remote control to turn on the LCD projection TV.
- 2** Press TV FUNCTION on the remote control until the TV indicator lights up.
- 3** Press CHANNEL+ on your LCD projection TV to run Auto Setup, or press CHANNEL– to exit. If you use the channel buttons on your remote control, be sure to use .

LCD projection TV front panel



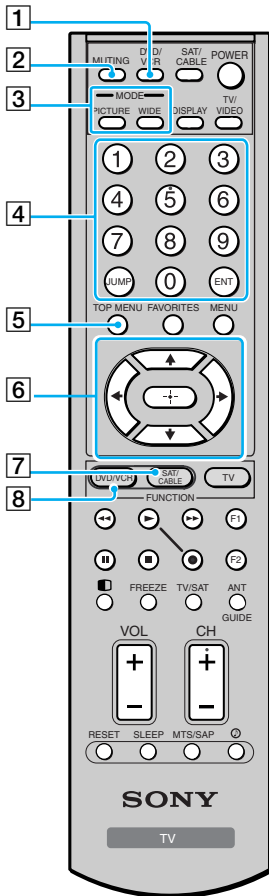
 You can run Auto Program by selecting it in the Channel menu, as described on page 67.


Using the Features

Using the Remote Control

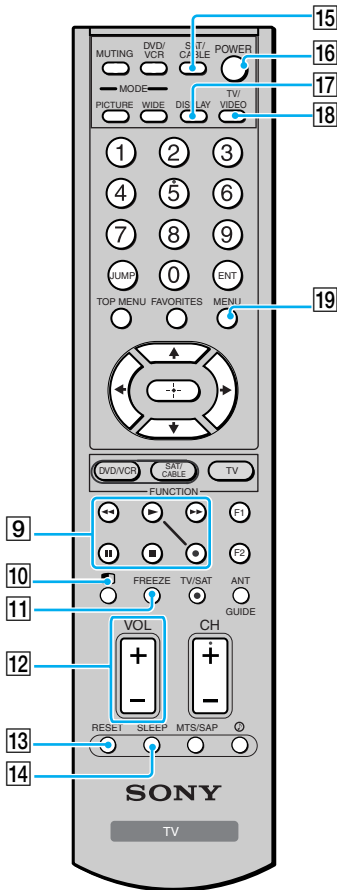
The following table describes the buttons on the remote control and their functions.

Button Descriptions

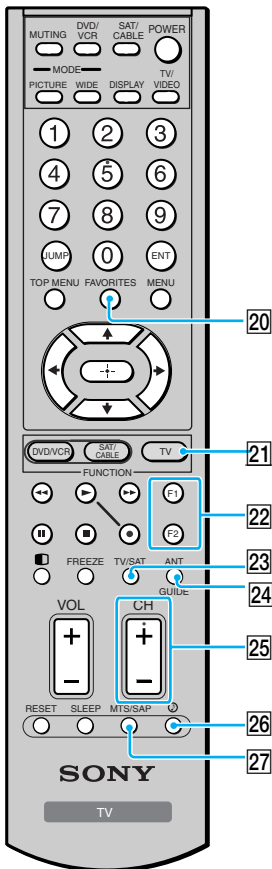




| Button | Description |
|---|---|
| 1 DVD/VCR (GREEN) | Press to turn on/off the DVD or VCR player. |
| 2 MUTING | Press to mute the sound. "MUTING" will appear on the screen. Press again or press VOL + to restore the sound. |
| 3 WIDE MODE | Press to step through the wide screen modes: Wide Zoom, Normal, Full and Zoom. For details, see "Using Wide Screen Mode" on page 58. |
| PICTURE MODE | Press repeatedly to step through the available video picture modes: Vivid, Standard and Pro. Also available in the Video menu. For details, see "Selecting Video Options" on page 60. |
| 4 0 - 9 | Press 0 - 9 to select a channel, the channel changes after 2 seconds. |
| ENT | Press to select channel immediately after entering numbers. |
| JUMP | Press to jump back and forth between two channels. The LCD projection TV alternates between the current channel and the last channel that was selected. |
| 5 TOP MENU | When DVD is connected, the title menu list will appear. |
| 6 ↑/↓/←/→ | When the menu is displayed, press to move the on-screen cursor. |
|  | When the menu is displayed, press to select the item. |
| 7 SAT/CABLE FUNCTION | Press to select satellite or cable TV. |
| 8 DVD/VCR FUNCTION | Press to select the DVD/VCR. |

(Continued)



- | | |
|------------------------------------|--|
| <p>9 </p> | <p>9 Play : Stop : Rewind : Play : Fast-Forward : Record by pressing and </p> |
| <p>10 </p> | <p>10 Press to turn on/off Twin View. For details, see “Using Twin View” on page 54.</p> |
| <p>11 FREEZE</p> | <p>11 FREEZE Press to freeze the current frame. This is useful when you need to copy down information that appears on the LCD projection TV’s screen (see “Using the Freeze Function” on page 57). Press again to restore the picture.</p> |
| <p>12 VOL +/-</p> | <p>12 VOL +/- Press to adjust the volume (+ up or – down).</p> |
| <p>13 RESET</p> | <p>13 RESET Press when in a menu to reset the settings to the factory defaults.</p> |
| <p>14 SLEEP</p> | <p>14 SLEEP Press repeatedly until the LCD projection TV displays the amount of time (15, 30, 45, 60, or 90 minutes) that you want the LCD projection TV to remain on before shutting off automatically. To cancel Sleep timer, press SLEEP repeatedly until “SLEEP OFF” appears. Pressing POWER also cancels the Sleep timer and turns off the power. While the Sleep feature is set, press once to view the remaining time.</p> |
| <p>15 SAT/CABLE (GREEN)</p> | <p>15 SAT/CABLE (GREEN) Press to turn on/off the satellite or cable TV. For instructions, see “Programming the Remote Control” on page 77.</p> |
| <p>16 POWER (GREEN)</p> | <p>16 POWER (GREEN) Press to turn on/off the LCD projection TV. If a video input indication (e.g., VIDEO 1, VIDEO 2) appears on the screen, press TV/VIDEO or CH +/- until a channel number appears.</p> |
| <p>17 DISPLAY</p> | <p>17 DISPLAY Press once to display the current time and channel label (if set) and channel number. Press again to turn Display off. See page 75 for details on setting the time.</p> |
| <p>18 TV/VIDEO</p> | <p>18 TV/VIDEO Press to cycle through the video equipment connected to your LCD projection TV’s video inputs: TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4, VIDEO 5, VIDEO 6 and VIDEO 7. If you select Skip as a Video Label in the Setup menu, your LCD projection TV will skip the video input you selected (see “Video Label” on page 74).</p> |
| <p>19 MENU</p> | <p>19 MENU Press to display the LCD projection TV on-screen menu. Press again to exit from the menu.</p> |
| <p>20 FAVORITES</p> | <p>20 FAVORITES Press to display the Favorite Channels list. For details, see “Using Favorite Channels” on page 53.</p> |




- 21 TV FUNCTION** Press to select the TV. The indicator lights up momentarily when pressed to show which equipment the remote control is operating.
- 22 F1 and F2** Press F1 or F2 to control the connected components (DVD/VCR or DVD/HDD). For details, see “Using Other Equipment with Your LCD Projection TV Remote Control” on page 79.
- 23 TV/SAT** Press to select the TV or satellite receiver.
- 24 ANT** Press to change between the VHF/UHF input and the AUX input.
- GUIDE** Displays the program guide of your satellite receiver.
- 25 CH +/-** Press to scan one-by-one through channels.
 To scan rapidly through the channels, press and hold down CH + or CH - (+ up or - down).
- 26**  Press to scroll an audio option: TruSurround, Simulated, and Off.
- 27 MTS/SAP** Press to scroll through the Multi-channel TV Sound (MTS) options: Stereo, Auto SAP and Mono (see “MTS” on page 63).

Watching Digital TV

When you have connected the digital TV receiver, you can enjoy digital TV programs. This LCD projection TV is capable of receiving 1080i, 720p, 480p and 480i digital TV formats.

To view a digital TV program


- 1** Connect the digital TV receiver to HD/DVD IN 5 or 6, DVI-HDTV IN 7 on the LCD projection TV (for details, see page 44).
- 2** Press TV/VIDEO on the remote control to select VIDEO 5 or 6, VIDEO 7.
- 3** Select a digital channel on the digital TV receiver. For details, see the Operating Manual of the digital TV receiver.
- 4** Adjust the volume of the LCD projection TV as necessary.

 Be sure to program the remote control with the digital TV receiver's manufacturer's code. See page 78.

Using Favorite Channels

The Favorite Channel feature lets you quickly select programs from a list of favorite channels that you preset.

Creating a List of Favorite Channels


- 1** Press MENU to display the Menu.
 - 2** Press ◀ or ▶ to highlight the Channel icon and press (+).
 - 3** Press (+) to select Favorite Channels.
 - 4** Press ▲ or ▼ to highlight a Favorite Channel number (1-16) and press (+).
 - 5** Press ▲ or ▼ to highlight a channel you want to assign to the Favorite Channel number. A preview of the highlighted channel appears in the upper right of the screen.
Press (+) to select that channel as a Favorite Channel.
 - 6** To add more channels to your favorites list, repeat steps 4-5.
To clear a Favorite Channel, press ▲ or ▼ to highlight the channel you want to clear. Press (+) and then press RESET.
 - 7** Press MENU to exit the menu.
-  For details on using the Channel menu, see page 67.


Displaying a List of Favorite Channels

- 1** Press FAVORITES.
The Favorite Channel options appear.



- 2** Press ▲ or ▼ to highlight the channel you want to watch. The program on that channel appears in the preview window. Press (+) to select.

 When the remote control is set to a function other than the TV function, you can display the Favorite Channels, but you cannot select the channel by using ▲ or ▼.


-  To assign Channel Labels (e.g., ABC, HBO, MTV, etc.) to channel numbers above, use the Channel Label feature in the Channel menu (see page 68).

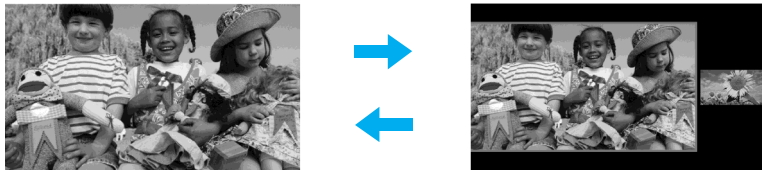
Using Twin View

Twin View enables you to watch two programs at the same time. You can also change the size of both the left and right pictures.



Activating Twin Pictures

To display twin pictures



- 1 Make sure your LCD projection TV is tuned to a working channel.
- 2 Press .



To cancel twin pictures

- Press  again (or press .

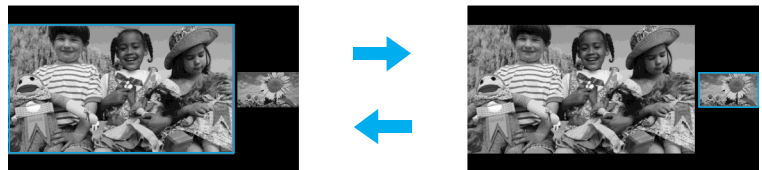
Activating the Picture

Although two pictures appear on the screen at the same time, only one picture is active. Change the picture size by using the  or  button. For an active picture, you can:

- Change channels.
- Adjust the volume.
- Switch the input sources from VHF/UHF to cable by pressing ANT or TV/VIDEO to switch the video input.

To activate the right picture

- Press .



To activate the left picture

- Press .

Factors Affecting Twin View

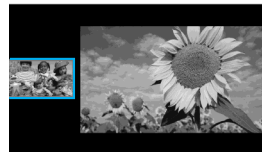
- ❑ If you use a cable box to view all channels, the same channel appears in both windows because the cable box unscrambles only one channel at a time, so the right picture will be the same as the left picture.
- ❑ If you use a cable box and other video equipment connected, you can view the cable box output in one window and view a different source (such as a VCR or DVD player) in the second window by using the TV/VIDEO button.
- ❑ Sources connected to the AUX, VIDEO 5, VIDEO 6, and VIDEO 7 inputs display in the left window, but not the right.
- ❑ If you are viewing a 4:3 source and a 16:9 enhanced source (such as a DVD) side by side, the 4:3 source appears larger.
- ❑ Twin View does not display channels that are blocked by parental settings (see page 69).

Changing the Picture Size

The zoom feature lets you change the size of the left and right pictures.


To enlarge the left picture (reduce the right)

- 1 Press ◀ to activate the left picture (if not already activated).
- 2 Press ↑ to enlarge the picture and ↓ to reduce the picture.



To enlarge the right picture (reduce the left)

- 1 Press ▶ to activate the right picture (if not already activated).
- 2 Press ↑ to enlarge the picture and ↓ to reduce the picture.

 When you adjust the twin screen sizes, the LCD projection TV memorizes the change. The next time you use the Twin View function, the memorized sizes appear.

Using the Freeze Function


The Freeze function allows you to temporarily capture a program's picture. You can use this feature to write down information such as phone numbers, recipes, etc.

To use the Freeze function

- 1** When the program information you want to capture is displayed, press FREEZE.
- 2** The LCD projection TV switches to Twin View mode and displays the "frozen" picture on the right, while the current program continues on the left.




- 3** To cancel and return to normal viewing, press FREEZE again.

 Freeze feature is not available if you are already in Favorite Channel (see page 53) or Twin View (see page 54).

Using Wide Screen Mode

Wide Mode lets you watch 4:3 normal broadcasts in several wide screen modes (16:9 aspect ratio).

- Press **WIDE MODE** repeatedly to toggle through the following screen mode settings.

 You can also access the **WIDE MODE** settings in the Screen menu. For details, see page 65.



Wide Zoom



Normal



Full




Zoom

Wide Zoom enlarges the 4:3 picture to fill the 16:9 screen, keeping the original image as much as possible.

Normal returns the 4:3 picture to its original size.

Full stretches the 4:3 picture horizontally only, to fill the 16:9 screen.

Zoom enlarges the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the 16:9 screen. Useful for watching Letterbox movies.

 When you change channels or inputs, the screen mode settings revert to Wide Zoom (or the 4:3 Default setting in the Wide menu). To retain the current screen mode setting as channels and inputs are changed, set 4:3 Default to Off. For details, see page 66.

Using the Menus

Overview



Opening and choosing a menu

- 1 Press MENU to display the menu screen.
- 2 Press ◀ or ▶ to highlight the desired menu icon and press (+) to select it.
- 3 Use the arrow buttons to scroll through the features.
- 4 See the specific menu page for instructions on moving through the menu.







To end a menu session

- Press MENU again.

To end one menu session and move to another

- Press ↑ to return to the menu icons.
Press ◀ or ▶ to choose the next menu icon and press (+) to select it.





The menu gives you access to the following features:

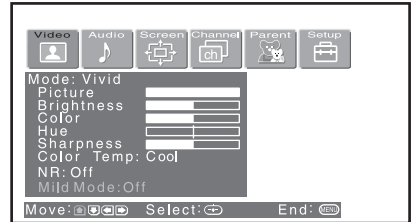
| Menu Icon | Description | Page |
|---|---|------|
|  | Allows you to make adjustments to your picture settings. It also allows you to customize the Picture Mode based on the type of program you are viewing. | 60 |
|  | Offers enhanced audio options such as listening to second audio programming (SAP), or customizing the Effect of the sound on your LCD projection TV. | 63 |
|  | Allows you to set the wide screen mode, adjust the vertical center in wide mode, and set the 4:3 Default mode. | 65 |
|  | Allows you to set up a Favorite Channel list, run the Auto Program function, and more. | 67 |
|  | Lets you control program viewing based on their ratings. | 69 |
|  | Provides several options for setting up your channels, labeling your Video inputs, and selecting the language of the on-screen menus. | 73 |



Using the Video Menu

To select the Video menu

- 1 Press MENU.
- 2 Press ◀ or ▶ to highlight the Video icon  and press .
- 3 Use the arrow buttons to scroll through the features.
- 4 Press  to select a feature. That feature's adjustment appears.
- 5 Use the arrow buttons to make the desired adjustments.
- 6 Press  to select/set.
- 7 Press MENU to exit the menu screen.






To restore the factory default settings for Picture, Brightness, Color, Hue, Sharpness and Color Temp


- Press RESET on the remote control when in the Video menu.

Selecting Video Options

The Video menu includes the following options.

| Option | Description |
|----------------------------|--|
| Mode | Vivid Select for enhanced picture contrast and sharpness. |
| Customized picture viewing | Standard Recommended for normal viewing conditions. |
| | Pro Select to display a picture with minimum enhancements. |


-  You can alter the Video menu settings (Picture, Brightness, Color, etc.) for each mode.
-  You may set up a Picture Mode (Vivid, Standard, Pro) independently for each Video input (Video 1 - Video 7, including the Antenna input). Your Picture Mode settings will automatically be saved after each selection. This allows you to customize the Picture Mode setting for each type of signal source. Typically, Vivid should be used for higher quality input signal sources, and Pro for lower quality signals.
-  We recommend selecting Standard for normal home use.

 To quickly and easily change from one Video Mode to another, use PICTURE MODE on the remote control.

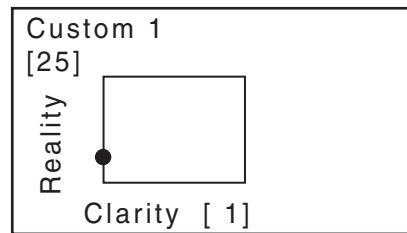
| <i>Option</i> | <i>Description</i> | | |
|-----------------------------------|---|--|--|
| Picture | Adjust to increase picture contrast and deepen the color or decrease picture contrast and soften the color. | | |
| Brightness | Adjust to brighten or darken the picture. | | |
| Color | Adjust to increase or decrease color intensity. | | |
| Hue | Adjust to increase or decrease the green tones. | | |
| Sharpness | Adjust to sharpen or soften the picture. | | |
| Color Temp | Choose from three color temperatures: | | |
| <i>White intensity adjustment</i> | Cool | Select to give the white colors a blue tint. | |
| | Neutral | Select to give the white colors a neutral tint. | |
| | Warm | Select to give the white colors a red tint. | |
| NR <i>Noise Reduction</i> | Select to reduce the noise level of connected equipment. This also reduces the noise level from the VHF/UHF jack signal. Select from High, Medium, Low and Off. | | |
| Mild Mode | On | Select for a natural, soft picture. | |
| | Off | Select to turn off the Mild Mode. | |
| | ✎ Mild Mode is unavailable when the Picture Mode is set to Vivid. | | |
| Advanced Video | Program | DRC Mode | |
| | | Creates a high-resolution picture with 4x density, for high quality sources (i.e., DVD player, satellite receiver). | |
| | | High Density | Recommended for moving pictures. |
| | | Progressive | Recommended for still images and text. |
| | CineMotion | Provides an optimized display by automatically detecting film content and applying a reverse 3/2 pulldown process. Moving pictures will appear clearer and more natural-looking. | |

| Option | Description |
|-------------------------------|---------------------|
| Advanced Video (Continued) | Program DRC Palette |


Allows you to customize the level of detail (Reality) and smoothness (Clarity) for up to three input sources. For example, you can create one Custom setting to optimize your cable input's picture, and create another to optimize your DVD player's picture. You can switch among the three Custom settings.

- 1 Press the arrow buttons to highlight Custom 1, Custom 2, or Custom 3 and then press .


The DRC palette appears.



- 2 Press the arrow buttons to adjust the position of the marker (●). As you move the ● higher along the Reality axis, the picture becomes more detailed. As you move the ● to the right along the Clarity axis, the picture becomes smoother.

- 3 To save the setting, press .


To return the Custom options to the default factory settings, press the RESET button.

 Advanced Video is unavailable when you have selected Mild Mode, or you are watching 1080i, 720p or 480p sources with Video 5 to 7 inputs.

BN Smoother (*Block Noise Smoother*)

Select to reduce noise caused by the video encoding and decoding process. This is especially effective for watching a DVD or HDTV picture.





Select from High, Medium, Low and Off.

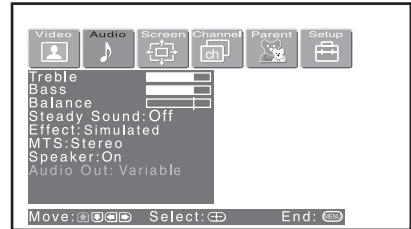
 Your connected equipment may affect the ability of the BN Smoother to correct the image quality.



Using the Audio Menu

To select the Audio menu

- 1 Press MENU.
- 2 Press ◀ or ▶ to highlight the Audio icon  and press .
- 3 Use the arrow buttons to scroll through the options.
- 4 Press  to select an option. That option's settings appear.
- 5 Use the arrow buttons to scroll through the settings.
- 6 Press  to select the desired setting.
- 7 Press MENU to exit the menu screen.



To restore the factory default settings for Treble, Bass and Balance

- Press RESET on the remote control when in the Audio menu.

Selecting Audio Options

The Audio menu includes the following options:

| Option | Description |
|---|--|
| Treble | Adjust to increase or decrease higher-pitched sounds. |
| Bass | Adjust to increase or decrease lower-pitched sounds. |
| Balance | Adjust to emphasize left or right speaker balance. |
| Steady Sound | Auto Select to stabilize the volume. |
| | Off Select to turn off Steady Sound. |
| Effect | TruSurround Select for surround sound (for stereo programs only). |
| | Simulated Adds a surround-like effect to mono programs. |
| | Off Normal stereo or mono reception. |
| MTS <i>Enjoy stereo, bilingual and mono programs</i> | Stereo Select for stereo reception when viewing a program broadcast in stereo. |
| | Auto SAP Select to automatically switch the LCD projection TV to second audio programs when a signal is received. (If no SAP signal is present, the LCD projection TV remains in Stereo mode.) |
| | Mono Select for mono reception. (Use to reduce noise during weak stereo broadcasts.) |


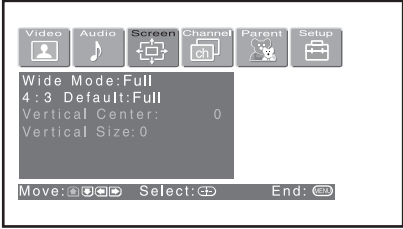
(Continued)

| <i>Option</i> | <i>Description</i> | |
|--|--------------------|--|
| Speaker | On | Select to turn on the LCD projection TV speakers. |
| | Off | Select to turn off the LCD projection TV speakers and listen to the sound only through your external audio system speakers. |
| Audio Out <i>Easy control of volume adjustments</i> | Variable | The LCD projection TV's speakers are turned off, but the volume output from your audio system can still be controlled by the LCD projection TV's remote control. |
| | Fixed | The LCD projection TV's speakers are turned off and the volume, bass and treble output of the LCD projection TV is fixed. Use your audio receiver's volume control to adjust the volume through your audio system. |




Using the Screen Menu



To select the Screen menu

- 1 Press MENU.
- 2 Press ◀ or ▶ to highlight the Screen icon  and press (+). 
- 3 Use the arrow buttons to scroll through the features.
- 4 Press (+) to select a feature. That feature's options appear.
- 5 Use the arrow buttons to scroll through the options.
- 6 Press (+) to select the desired option.
- 7 Press MENU to exit the menu screen.









Selecting Screen Options

The Screen menu includes the following options:

-  To change from one Wide Mode to another, use WIDE MODE on the remote control.

| Option | Description |
|--|--|
| Wide Mode <i>Select a screen mode to use for 4:3 sources.</i> | <p>Wide Zoom Select to enlarge the 4:3 picture, to fill the 16:9 screen, keeping the original image as much as possible.</p> <p>Normal Select to return the 4:3 picture to normal mode.</p> <p>Full Select to enlarge the 4:3 picture horizontally only, to fill the wide screen.</p> <p>Zoom Select to enlarge the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the wide screen.</p> |
| | <ul style="list-style-type: none">  Wide Mode is unavailable while in Twin View (page 54) or Freeze (page 57).  Wide Mode is unavailable when you are watching 720p and 1080i sources. |





(Continued)

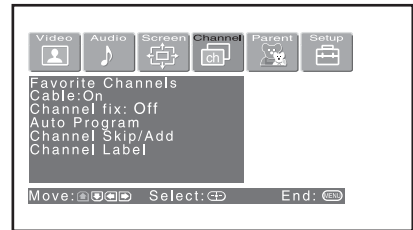
| Option | Description |
|--|---|
| 4:3 Default <i>Select the default Screen Mode to use for 4:3 sources.</i> | Wide Zoom Select to enlarge the 4:3 picture, to fill the 16:9 screen, keeping the original image as much as possible. |
| | Normal Select to return the 4:3 picture to normal mode. |
| | Full Select to enlarge the 4:3 picture horizontally only, to fill the wide screen. |
| | Zoom Select to enlarge the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the wide screen. |
| | Off Select to continue using the current screen mode setting when the channel or input is changed. |
| <p> The 4:3 Default functions only when the LCD projection TV receives 480i and 480p signals.</p> <p> If 4:3 Default is set to anything but Off, the Wide Mode setting changes only for the current channel. When you change channels (or inputs), Wide Mode is automatically replaced with the 4:3 Default setting. To retain the current Wide Mode setting as channels and inputs are changed, set 4:3 Default to Off.</p> | |
| Vertical Center | Adjust Allows you to move the position of the picture up and down in the window. (Available only in Wide Zoom and Zoom modes.) Press  or  and press  to choose a position between +25 and -25 (Zoom mode), and +10 and -10 (Wide Zoom mode). |
| Vertical Size | Adjust Allows you to adjust the vertical size of the picture. (Available only in Wide Zoom and Zoom modes.) Press  or  and press  to choose a correction between +7 and -7. |



Using the Channel Menu


To select the Channel menu

- 1 Press MENU.
- 2 Press ◀ or ▶ to highlight the Channel icon  and press .
- 3 Use the arrow buttons to scroll through the features.
- 4 Press  to select a feature. That feature's options appear.
- 5 Use the arrow buttons to scroll through the options.
- 6 Press  to select the desired option.
- 7 Press MENU to exit the menu screen.


















Selecting Channel Options

The Channel menu includes the following options:

| Option | Description |
|---|---|
| Favorite Channels | Lets you set up a list of your favorite channels. For details, see “Using Favorite Channels” on page 53. |
| Cable | <p>On Select if you are receiving cable channels with a CATV cable.</p> <p>Off Select if you are using an antenna.</p> <p> You should run Auto Program after changing the Cable setting.</p> |
| Channel Fix | 2-6 “Fix” your TV's channel setting to 2-6 and use the cable box or satellite receiver to change channels. Select one of these settings if you connected the equipment to the VHF/UHF jack. |
| <i>Useful when you have a cable box or satellite receiver connected</i> | <p>AUX 2-6 Same as 2-6, except you select one of these settings if you have connected the device to the AUX jack (see page 27).</p> <p>Video 1 Use when connecting a cable box. TV output should be connected through the cable box.</p> |
| Auto Program | Automatically programs the LCD projection TV for all receivable channels. |

(Continued)




| <i>Option</i> | <i>Description</i> |
|------------------|---|
| Channel Skip/Add | <p>Removes and adds viewable channels.</p> <ol style="list-style-type: none">1 Use the arrow buttons to scroll through the channels until you find the channel you want to skip/add.2 Press  to select it.3 Press  or  to toggle between “Add” and “Skip.”4 Press  to select. <p> Channels that you set to be skipped can be accessed only with the 0-9 buttons.</p> |
| Channel Label | <p>Allows you to assign labels (such as station call letters) to channel numbers. You can label up to 40 channels.</p> <ol style="list-style-type: none">1 Press the arrow buttons to highlight Channel Label and press .2 Press  or  to scroll through the channel numbers (1-125). Then press  to select the channel number that you want to assign a label.3 Press the arrow buttons to highlight Label and press .4 Press  or  to scroll through the label characters (A-Z, 0-9, etc.). Then press  to select the highlighted character.5 Repeat to add up to 5 characters to the label.6 To assign labels to more channels, repeat steps 1-4.7 Press  to return to the Channel menu, or press MENU to exit the menus. <p> Channel Label is not available (grayed out) when watching the AUX and VIDEO inputs.</p> |

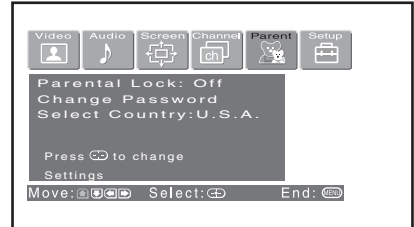



Using the Parent Menu

The Parent menu allows you to set up the TV to block programs according to their content and rating levels.

To select the Parent menu

- 1 Press MENU.
- 2 Press ◀ or ▶ to highlight the Parent icon  and press .
- 3 Use the 0-9 buttons on the remote control to enter a four-digit password.
- 4 If this is the first time you are creating this password, confirm the password by entering it again. (The Parent Menu options appear.)
- 5 Press ▲ ▼ ◀ ▶ to change settings. Press  to select the changed setting.
- 6 Press MENU to exit the menu screen.





 You need your password for any future access into the Parent menu. If you lose your password, see “Lost password” on page 86.

Selecting Parent Options

The Parent menu includes the following options:

| Option | Description |
|--|--|
| Parental Lock | Off Turn Parental Lock off. No programs are blocked from viewing. |
| Turn ratings on/off and select a rating system | Child Maximum ratings permitted are: US: TV-Y, TV-G, G Canada: C, G, TV-Y |
| | Youth Maximum ratings permitted are: US: TV-PG, PG Canada: C8+, PG, 8 ans+, TV-PG |
| | Y. Adult Maximum ratings permitted are: US: TV-14, PG-13 Canada: 14+, 13 ans+, TV-14 |
| | Custom Select to set ratings manually. US: See page 71 for details. Canada: See page 72 for details. |

 If you are not familiar with the Parental Guideline rating system, you should select Child, Youth, or Y. Adult to help simplify the rating selection. To set more restrictive ratings, select Custom.

 For descriptions of Child, Youth, and Y. Adult ratings, see page 71.


(Continued)

| <i>Option</i> | <i>Description</i> |
|-----------------|--|
| Change Password | Select to change your password. |
| Select Country | U.S.A. Select to use USA ratings (see page 71). |
| | Canada Select to use Canadian ratings (see page 72). |

To deactivate the Parental Control feature

- Set Parental Lock to OFF when in the Parent menu.

To change the password

- 1** In the Parent menu, use the arrow button to select the Change Password option and press  to select it.
- 2** Enter a new four-digit password using the 0-9 buttons.
- 3** Confirm the new password by entering it again.
- 4** Press MENU to exit the menu screen.

Viewing Blocked Programs


You can view a blocked program by entering the password.


- 1** Press ENT when tuned to a blocked program.
- 2** Enter your password using the 0-9 buttons.
Parental Control will be canceled temporarily until you turn your LCD projection TV off.


Selecting Custom Rating Options

US custom rating options

If you selected U.S.A. as the country of residence on page 70, the Custom Rating menu includes the following options. (If you selected Canada, see page 72.)

 To ensure maximum blocking capability, the age-based ratings should be blocked.

| <i>Option</i> | <i>Description</i> | |
|--|--|--|
| Movie Rating | G All children and General Audience. | |
| | PG Parental guidance suggested. | |
| | PG-13 Parental guidance for children under 13. | |
| | R Restricted viewing, parental guidance is suggested for children under 17. | |
| | NC-17 and X No one 17 and under allowed. | |
| TV Rating | Age-Based Options | |
| <i>Block programs by their rating, content or both</i> | TV-Y All children. | |
| | TV-Y7 Directed to older children (7 and over). | |
| | TV-G General audience. | |
| | TV-PG Parental guidance suggested. | |
| | TV-14 Parents strongly cautioned for audience under 14. | |
| | TV-MA Mature audience only. | |
| | Content-Based Options | |
| | FV Fantasy violence. | |
| | D Suggestive dialogue. | |
| | L Strong language. | |
| S Sexual situations. | | |
| V Violence. | | |
| Unrated | Block Blocks all programs and movies that are broadcast without a rating. | |
| | Allow Allows programs and movies that are broadcast without a rating. | |
| |  If you select “Block,” please be aware that the following programs may be blocked: emergency broadcasts, political programs, sports, news, public service announcements, religious programs and weather. | |

 The content ratings will increase depending on the level of the age-based rating. For example, a program with a TV-PG V (Violence) rating may contain moderate violence, while a TV-14 V (Violence) rating may contain more intense violence.

Canadian custom rating options


If you selected Canada as the country of residence on page 70, the Custom Rating menu includes the following options. (If you selected U.S.A., see page 71.)

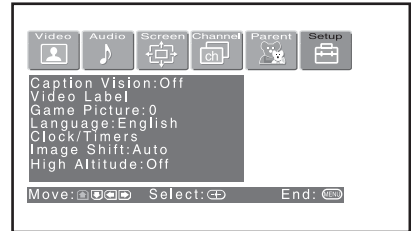
| <i>Option</i> | <i>Description</i> | |
|----------------|---|---|
| English Rating | C | All children. |
| | C8+ | Children 8 years and older. |
| | G | General programming. |
| | PG | Parental guidance. |
| | 14+ | Viewers 14 and older. |
| | 18+ | Adult programming. |
| French Rating | G | General programming. |
| | 8 ans+ | Not recommended for young children (under 8). |
| | 13 ans+ | Not recommended for ages under 13. |
| | 16 ans+ | Not recommended for ages under 16. |
| | 18 ans+ | Programming restricted to adults. |
| USA Rating | See “TV Rating” on page 71 for details. | |



Using the Setup Menu

To select the Setup menu

- 1 Press MENU.
- 2 Press ◀ or ▶ to highlight the Setup icon  and press (+).
(+).
- 3 Use the arrow buttons to scroll through the features.
- 4 Press (+) to select a feature. That feature's options appear.
- 5 Use the arrow buttons to scroll through the options.
- 6 Press (+) to select the desired option.
- 7 Press MENU to exit the menu screen.





Selecting Setup Options

The Setup menu includes the following options:

| Option | Description |
|----------------------------|--|
| Caption Vision | Allows you to select from three closed caption modes (for programs that are broadcast with closed captioning). |
| Off | Turns off Caption Vision. |
| CC1, CC2, CC3, CC4 | Displays on screen text of the dialog or sound effects of a program. (Should be set to CC1 for most programs.) |
| Text1, Text2, Text3, Text4 | Displays network/station information presented using either half or the whole screen (if available). For closed captioning, set to CC1. |
| Info | Displays the program name and the time remaining in the program (if the broadcaster offers this service). Displays temporarily when the channel is changed or the DISPLAY button is pressed. |

(Continued)

| <i>Option</i> | <i>Description</i> |
|---------------------|--|
| Video Label | <p>Allows you to label the audio/video components you connected to the LCD projection TV so you can identify them when using TV/VIDEO. When in the Setup menu's Video Label feature, press ▲ or ▼ to highlight an input to label, then press (+) to select it. Use the arrow buttons to scroll through the labels. Press (+) to select the component you connected to each of the input jacks on the back of your LCD projection TV. Select "Skip" if you do not have a component connected to a particular set of input jacks.</p> <p>Video 1/2/3/4 VHS, DVD, Receiver, Satellite, Cable Box, 8mm, DTV, Game, LD, Web, Beta, Skip</p> <p>Video 5/6/7 DVD, Satellite, Cable Box, DTV, HD, Game, Skip</p> <p>If you select "Skip", your LCD projection TV skips this connection when you press TV/VIDEO.</p> <p> If you select "Receiver", your LCD projection TV's input is fixed (for Video 1 only).</p> |
| Game Picture Adjust | <p>Allows you to move the position of the picture left and right in the window. (This feature also adjusts the picture from connected equipment.)</p> <p>Select while watching the picture to be adjusted. The TV stores the position in memory for each input.</p> |
| Language | <p>Select to display all on-screen menus in your language of choice: English, Español, Français.</p> |

| Option | Description |
|--|---|
| Clock/Timers | Lets you set the clock on your TV and allows you to program your TV for scheduled viewing using the Timers. |
| Sleep | Allows you to select the amount of time (15, 30, 45, 60, or 90 minutes) that you want the LCD projection TV to remain on before shutting off automatically. |
| Timer 1 Timer 2 | You can use the Timers to program the TV to turn on and off and tune to a specific channel at two scheduled viewing times. |
| Timer 1 and Timer 2 cannot be set until you set the Current Time. | |
| 1 Press ▲ or ▼ to highlight Timer 1 or Timer 2. To set the timer, press ▶ . | |
| 2 Press ▲ or ▼ to highlight one of the following options, then press ⊕ . | |
| Program | Select to set the Timer by day, time, duration, and channel. |
| Off | Select to turn off the Timer. (Your previous settings are saved.) |
| 3 If you selected Program in step 2, press ▲ and ▼ to set the day(s), hour, minute, duration, and channel number. Press ⊕ or press ▶ to confirm each setting and move to the next setting. Press ◀ to go back to the previous setting. | |
| 4 Press MENU to exit the menu screen. An LED on the front panel will light, indicating the Timer has been set. | |
|  To go directly to programming Timer 1 or 2, press ⊕ instead of pressing ▶ . | |
| Current Time | |
| 1 Press ⊕ to select Current Time. | |
| 2 Press ▲ and ▼ to set the current time (day, hour, and minute). Press ⊕ (or press ▶) to confirm each setting and move to the next setting. Press ◀ to go back the previous setting. | |
| 3 Press MENU to exit the menu. | |

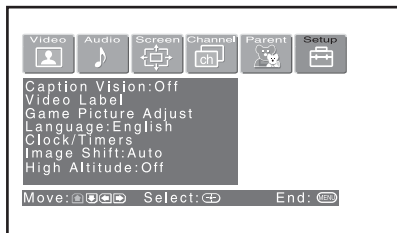
(Continued)

| <i>Option</i> | <i>Description</i> |
|---------------|--------------------|
|---------------|--------------------|

| | |
|-------------|---|
| Image Shift | Corrects the image on your LCD projection TV. Before adjusting |
|-------------|---|



After adjusting



Auto: (Factory setting) Automatically corrects double images.

Level 1-4 (manual): Select 1-4 to move the ghost image to align the two.

| | | |
|---------------|-----|--|
| High Altitude | On | Set to use the unit at an altitude of 1,500 m (4,921 ft.) or higher. |
| | Off | Set to use the unit at normal altitudes. |


Other Information

Programming the Remote Control

The remote control is preset to operate Sony brand video equipment.


| Sony Equipment | Programmable Code Number |
|----------------|-------------------------------|
| DVD/VCR | 601 (Sony Dream System) |
| SAT/CABLE | 801 (Sony Satellite Receiver) |

If you have video equipment other than Sony brand that you want to control with the LCD projection TV's remote control, use the following procedure to program the remote control.


 The equipment must have infrared (IR) remote capability in order to be used with the remote control.

From the "Manufacturer's Codes" listed on page 78, select the three-digit code number for the manufacture's code of your equipment. If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment. Use the code number to complete the following procedure.

- 1** Press the DVD/VCR (FUNCTION) and RESET buttons simultaneously, or press the SAT/CABLE (FUNCTION) and RESET buttons simultaneously. The DVD/VCR and SAT/CABLE buttons flash.
- 2** Press the function button you want to program.
To program a cable box or a satellite receiver
Press SAT/CABLE (FUNCTION).
To program video equipment
Press DVD/VCR (FUNCTION).
- 3** Enter the three-digit manufacture's code number using the 0 - 9 buttons.
- 4** Press ENT (enter).

 If no code number is input within 10 seconds, or an invalid or incorrect code number is input, the remote control automatically goes back to the previous setting.

- 5** To check if the code number works, aim the TV's remote control at the equipment and press DVD/VCR and/or SAT/CABLE (POWER) that corresponds with that equipment. If it responds, the programming is completed. If not, try using the other codes listed for that manufacturer.

 In some cases, you may not be able to operate your equipment with the supplied remote control. In such cases, use the equipment's own remote control unit.

Other Information

Manufacturer's Codes

DVD Players

| <i>Manufacturer</i> | <i>Code</i> |
|---------------------|-------------|
| Sony | 751 |
| General Electric | 755 |
| Hitachi | 758 |
| JVC | 756 |
| Magnvox | 757 |
| Mitsubishi | 761 |
| Panasonic | 753 |
| Philips | 757 |
| Pioneer | 752 |
| RCA/PROSCAN | 755 |
| Samsung | 758 |
| Toshiba | 754 |
| Zenith | 760 |

DVD Changers

| <i>Manufacturer</i> | <i>Code</i> |
|---------------------|-------------|
| Sony | 765 |
| Panasonic | 766 |

DVD/VCR Combo Units

| <i>Manufacturer</i> | <i>Code</i> |
|---------------------|-------------|
| Sony | 767 |
| Broksonic | 776 |
| JVC | 775 |
| Panasonic | 777 |
| Samsung | 774 |
| Toshiba | 773 |
| Zenith | 768 |

HDD/DVD Combo Units

| <i>Manufacturer</i> | <i>Code</i> |
|---------------------|---------------|
| Sony | 770, 771, 772 |

5.1ch DVD AV System

| <i>Manufacturer</i> | <i>Code</i> |
|---------------------|--------------------|
| Sony (DAV) | 601, 602, 603, 604 |

AV Receivers

| <i>Manufacturer</i> | <i>Code</i> |
|---------------------|-------------|
| Sony | 764 |

VCRs

| <i>Manufacturer</i> | <i>Code</i> |
|----------------------|---------------|
| Sony | 301, 302, 303 |
| Admiral (M. Ward) | 327 |
| Aiwa* | 338, 344 |
| Audio Dynamic | 314, 337 |

| <i>Manufacturer</i> | <i>Code</i> |
|---------------------|---|
| Broksonic | 319, 317 |
| Canon | 309, 308 |
| Citizen | 332 |
| Craig | 302, 332 |
| Curtis Mathes | 304, 338, 309 |
| Daewoo | 341, 312, 309 |
| DBX | 314, 336, 337 |
| Dimensia | 304 |
| Emerson | 319, 320, 316, 317, 318, 341 |
| Fisher | 330, 335 |
| Funai | 338 |
| General Electric | 329, 304, 309 |
| Go Video | 322, 339, 340 |
| Goldstar | 332 |
| Hitachi | 306, 304, 305, 338 |
| Instant Replay | 309, 308 |
| JC Penney | 309, 305, 304, 330, 314, 336, 337 |
| JVC | 314, 336, 337, 345, 346, 347 |
| Kenwood | 314, 336, 332, 337 |
| LG | 332 |
| LXI (SEARS) | 332, 305, 330, 335, 338 |
| Magnavox | 308, 309, 310 |
| Marantz | 314, 336, 337 |
| Marta | 332 |
| Memorex | 309, 335 |
| Minolta | 305, 304 |
| Mitsubishi/MGA | 323, 324, 325, 326 |
| Multitech | 325, 338, 321 |
| NEC | 314, 336, 337 |
| Olympic | 309, 308 |
| Optimus | 327 |
| Orion | 317 |
| Panasonic | 308, 309, 306, 307 |
| Pentax | 305, 304 |
| Philco | 308, 309 |
| Philips | 308, 309, 310 |
| Pioneer | 308 |
| Quasar | 308, 309, 306 |
| RCA/PROSCAN | 304, 305, 308, 309, 311, 312, 313, 310, 329 |
| Realistic | 309, 330, 328, 335, 324, 338 |
| Sansui | 314 |
| Samsung | 322, 313, 321 |

| <i>Manufacturer</i> | <i>Code</i> |
|-----------------------------|---|
| Sanyo | 330, 335 |
| Scott | 312, 313, 321, 335, 323, 324, 325, 326 |
| Sharp | 327, 328 |
| Signature 2000 (M. Ward) | 338, 327 |
| SV2000 | 338 |
| Sylvania | 308, 309, 338, 310 |
| Symphonic | 338 |
| Tashiro | 332 |
| Tatung | 314, 336, 337 |
| Teac | 314, 336, 338, 337 |
| Technics | 309, 308 |
| Toshiba | 312, 311 |
| Wards | 327, 328, 335, 331, 332 |
| Yamaha | 314, 330, 336, 337 |
| Zenith | 331 |

Cable Boxes

| <i>Manufacturer</i> | <i>Code</i> |
|----------------------------|--|
| Sony | 230 |
| Hamlin/Regal | 222, 223, 224, 225, 226 |
| Jerrold/G. I./ Motorola | 201, 202, 203, 204, 205, 206, 207, 208, 218, 222 |
| Oak | 227, 228, 229 |
| Panasonic | 219, 220, 221 |
| Pioneer | 214, 215 |
| Scientific Atlanta | 209, 210, 211 |
| Tocom | 216, 217 |
| Zenith | 212, 213 |

Satellite Receivers

| <i>Manufacturer</i> | <i>Code</i> |
|---------------------|-------------|
| Sony | 801 |
| Dish Network | 810 |
| Echostar | 810 |
| General Electric | 802 |
| Hitachi | 805 |
| Hughes | 804 |
| Mitsubishi | 809 |
| Panasonic | 803 |
| RCA/PROSCAN | 802, 808 |
| Toshiba | 806, 807 |

* If an Aiwa VCR does not work even though you enter the code for Aiwa, enter the code for Sony instead.

Using Other Equipment with Your LCD Projection TV Remote Control

To operate other connected equipment with your LCD projection TV remote control, first turn to page 77 and program the necessary code. For operating video equipment, press TV/VIDEO repeatedly till you see the video input on the screen for your connected equipment. Remote control operation tips are provided below.

Operating a Cable Box

| To Do This ... | Press |
|--------------------------|----------------------|
| Turn on/off | SAT/CABLE (POWER) |
| Select cable box | SAT/CABLE (FUNCTION) |
| Select a channel | 0-9, ENT |
| Change channels | CH +/- |
| Back to previous channel | JUMP |

Operating a Satellite Receiver

| To Do This ... | Press |
|---------------------------|----------------------|
| Turn on/off | SAT/CABLE (POWER) |
| Select satellite receiver | SAT/CABLE (FUNCTION) |
| Select a channel | 0-9, ENT |
| Change channels | CH +/- |
| Back to previous channel | JUMP |
| Display channel number | DISPLAY |
| Display SAT Guide | GUIDE |
| Display SAT Menu | MENU |
| Move highlight (cursor) | ↑ ↓ ← → |
| Select item | Ⓢ |

Operating a VCR

| To Do This ... | Press |
|--|--|
| Turn on/off | DVD/VCR (POWER) |
| Change channels | CH +/- |
| Record | ● and ▶ simultaneously |
| Play | ▶ |
| Stop | ■ |
| Fast forward | ▶▶ |
| Rewind the tape | ◀◀ |
| Pause | |
| Search the picture forward or backward | ▶▶ or ◀◀ during playback (release to resume normal playback) |

Operating a DVD Player or DVD Changer

| To Do This ... | Press |
|---|---|
| Turn on/off | DVD/VCR (POWER) |
| If you have a DVD changer, to skip disks | F1 |
| Play | ▶ |
| Stop | ■ |
| Pause | (press again to resume normal playback) |
| Step through different tracks of the disc | ▶▶ to step forward or ◀◀ to step backward |
| Step through different chapters of a video disc | CH + to step forward or CH - to step backward |
| Display the DVD menu | TOP MENU |

Operating a 5.1ch DVD AV System (Sony DAV)

| To Do This ... | Press |
|---|-----------------|
| Turn on/off | DVD/VCR (POWER) |
| Select other equipment connected to the DAV | F1 |
| Skip a disk | F2 |
| Display the DVD menu | TOP MENU |
| Display the menu (Setup) | MENU |
| Move highlight (Cursor) | ↑ ↓ ← → |
| Select item | ⊕ |
| Change the volume | VOL +/-, MUTING |

Operating a DVD/ VCR or HDD/DVD Combo Unit

| To Do This ... | Press | |
|---|--|-------|
| Turn on/off | DVD/VCR (POWER) | |
| If you have a DVD/VCR combo component, | | |
| Select the DVD | F1 | |
| Select the VCR | F2 | |
| If you have a HDD/DVD combo component, | | |
| Select the DVD | F1 | |
| Select the HDD | F2 | |
| Record | ● and ▶ simultaneously | (VCR) |
| Play | ▶ | (VCR) |
| Stop | ■ | (VCR) |
| Fast forward | ▶▶ | (VCR) |
| Rewind the tape | ◀◀ | (VCR) |
| Pause | | (VCR) |
| Search the picture forward or backward | ▶▶ or ◀◀ during playback (release to resume normal playback) | (VCR) |
| Display the DVD menu | TOP MENU | |
| Play | ▶ | (DVD) |
| Stop | ■ | (DVD) |
| Pause | | (DVD) |
| Step through different tracks of the disc | ▶▶ to step forward or ◀◀ to step backward | (DVD) |
| Step through different chapters of a video disc | CH + to step forward or CH - to step backward | (DVD) |

Operating an AV Receiver

| To Do This ... | Press |
|-------------------|-----------------|
| Turn on/off | DVD/VCR (POWER) |
| Change the volume | VOL +/-, MUTING |

Contacting Sony

If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Customer Information Services Center at 1-800-222-SONY (7669) (US residents only) or 1-877-899-SONY (7669) (Canadian residents only).

Troubleshooting

Twin View

| <i>Problem</i> | <i>Possible Remedies</i> |
|---|--|
| I cannot get Twin View to work | <ul style="list-style-type: none">❑ If you are using a cable box to unscramble all channels (as shown on page 32), you cannot use the Twin View feature. This is because the cable box can unscramble only one channel at a time.❑ You can use Twin View to view a signal from a different source that is connected to the LCD projection TV's AUDIO/VIDEO IN jacks (such as a VCR or DVD player) in the second window by pressing TV/VIDEO while in Twin View.❑ Sources connected to the AUX, HD/DVD IN 5 and 6, DVI-HDTV IN 7 inputs will display only in the left Twin View window. |
| There is no Twin View window, or it is just static | <ul style="list-style-type: none">❑ Be sure the Twin View window is set to a video input or channel that has a signal airing.❑ You might be tuned to a video input with nothing connected to it. Try cycling through the video inputs by pressing TV/VIDEO. |
| Twin View cannot display anything but TV channels | <ul style="list-style-type: none">❑ Try cycling through the video inputs by pressing TV/VIDEO. Check that the Video Label option is not set to Skip. (See the Setup Menu on page 74.) |
| Twin View displays the same program in both windows | <ul style="list-style-type: none">❑ Both Twin View windows might be set to the same channel. Try changing channels in either window. |

Remote Control

| Problem | Possible Remedies |
|--|---|
| Remote control does not operate | <ul style="list-style-type: none"> ❑ The batteries could be weak. Replace the batteries. ❑ Check the orientation of the batteries. (Batteries are installed correctly.) ❑ Press FUNCTION (DVD/VCR, SAT/CABLE or TV) to select the equipment that you want to operate. ❑ Press the TV button first for TV operation. ❑ Make sure this unit's power cord is connected securely to the wall outlet. ❑ Locate the unit at least 3-4 feet away from fluorescent lights. |
| Cannot change channels with the remote control | <ul style="list-style-type: none"> ❑ If you are using the TV to change channels, first press the TV FUNCTION button. ❑ If you are using another device to change channels, be sure you have not inadvertently switched your TV from the channel 3 or 4 setting. Use the Channel Fix option to "fix" the channel based on the hookup you used (see page 67). ❑ If you are using another device to change channels, be sure to press FUNCTION (DVD/VCR, SAT/CABLE or TV) for that device. |
| Remote control does not operate non-Sony video equipment | <ul style="list-style-type: none"> ❑ If you replaced the batteries to the remote recently, the code numbers for the video equipment may need to be reset. ❑ There may be more than one code for the equipment that you are attempting to operate. ❑ There is a possibility that some non-Sony equipment cannot be operated by your Sony TV remote. You may need to use the equipment's original remote control. |

Video

| Problem | Possible Remedies |
|---------------------------------------|---|
| No picture (screen not lit), no sound | <ul style="list-style-type: none"> ❑ If your LCD projection TV does not turn on, and a red light keeps flashing, your LCD projection TV may need service. Call your local Sony Service Center. ❑ Make sure the power cord is plugged in. ❑ Press POWER/STANDBY on the front panel of the LCD projection TV. ❑ Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching connected equipment, set to VIDEO 1, 2, 3, 4, 5, 6 or 7. ❑ The Parental Control feature is activated (see "Using the Parent Menu" on page 69). ❑ If your LCD projection TV's power is on, and the LAMP (red) indication is flashing, the lamp for the light source has burnt out. Replace it with new Sony XL-2100U or XL-2100 replacement lamp (see page 15). ❑ Try another channel; it could be station trouble. |

(Continued)

Other Information

| Problem | Possible Remedies |
|---|---|
| Dark, poor or no picture (screen lit), good sound | <ul style="list-style-type: none">❑ Adjust the Picture option in the Video menu (see page 61).❑ Adjust the Brightness option in the Video menu (see page 61).❑ Check the antenna/cable connections. For optimum picture quality, a 75-ohm coaxial antenna connection is highly recommended. Radio waves and other interference can easily affect a 300-ohm twin lead cable, resulting in signal deterioration. If you use a 300-ohm twin lead cable, keep as far away as possible from the LCD projection TV. Do not use an indoor antenna; they are especially susceptible to radio noise (see page 29). |
| No color/dark picture/color is not correct | <ul style="list-style-type: none">❑ Adjust the Color option in the Video menu (see page 61). |
| Only snow and noise appear on the screen | <ul style="list-style-type: none">❑ Check the antenna/cable connections.❑ Check the Cable setting in the Channel menu (see “Cable” on page 67).❑ Make sure the channel is broadcasting programs.❑ Press ANT to change the input mode (see page 51). |
| Dotted lines or stripes | <ul style="list-style-type: none">❑ Adjust the antenna.❑ Move the LCD projection TV away from noise sources such as cars, neon signs, or hair-dryers. |
| Double images | <ul style="list-style-type: none">❑ Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).❑ Set the Image Shift to an appropriate value. The default setting is Auto. If doubled images appear with Auto, select the best value from 1 to 4 (see page 76). |
| “Black box” on screen | <ul style="list-style-type: none">❑ You have selected a text option in the Setup menu and no text is available. See page 73 to reset Setup selections. To turn off this feature, set the Caption Vision option to Off. If you were trying to select closed captioning, select CC1 instead of Text 1-4. |
| Black bands appear at the top and bottom of the screen | <ul style="list-style-type: none">❑ Some wide-screen programs are filmed in aspect ratios that are greater than 16:9 (this is especially common with theatrical releases). Your LCD projection TV will show these programs with black bands at the top and bottom of the screen. For more details, check the documentation that came with your DVD (or contact your program provider). |
| Certain programs on DVD or other digital sources display a loss of detail, especially during fast-motion or dark scenes | <ul style="list-style-type: none">❑ The compression used by certain digital broadcasts and DVDs may cause your TV’s screen to display less detail than usual, or cause artifacts (small blocks or dots, pixelations) to appear on your screen. This is due to your TV’s large screen and ability to show very fine detail, and is normal for certain digitally recorded programs. Adjust the reality/clarity in the Video menu DRC Palette (see page 62) to optimize the picture while viewing these sources. |
| Some video sources do not appear when I press TV/VIDEO | <ul style="list-style-type: none">❑ Ensure that Video Label is not set to “Skip” (see “Video Lable” on page 74). |

Audio

| <i>Problem</i> | <i>Possible Remedies</i> |
|--|--|
| Good picture, no sound | <ul style="list-style-type: none"> ❑ Press MUTING so that Muting disappears from the screen (see page 49). ❑ Make sure the Speaker option is set to On in the Audio menu (see page 64). |
| Audio noise | <ul style="list-style-type: none"> ❑ Communication problems may occur if infrared communication equipment (e.g., infrared cordless headphones) is used near the TV. Please use headphones other than infrared cordless headphones. Also, if you use infrared communication equipment other than infrared cordless headphones, move the infrared transceiver away from the TV until the noise is eliminated, or move the transmitter and receiver of the infrared communication equipment closer together. |
| Cannot gain enough volume when using a cable box | <ul style="list-style-type: none"> ❑ Increase the volume of the cable box using the cable box's remote control. Then press TV FUNCTION button and adjust the TV's volume. |
| Sound seems weak or insufficient | <ul style="list-style-type: none"> ❑ The TV's audio might be set to Auto SAP or Mono, when it might be better set to Stereo. In the Audio menu (see page 63), set the MTS setting to Stereo. If already set to Stereo, switch to Mono (which may reduce background noise during weak stereo broadcasts). |
| Cannot raise the volume on external speakers | <ul style="list-style-type: none"> ❑ If the Speaker option is set to Off and the Audio Out option is set to Fixed (in order to output the sound to your audio system) use your audio receiver to adjust the sound (see page 63). Or, to use the TV remote control, set the Audio Out option to Variable. ❑ To turn on the TV speakers, set the Speaker option to On (see page 64). |

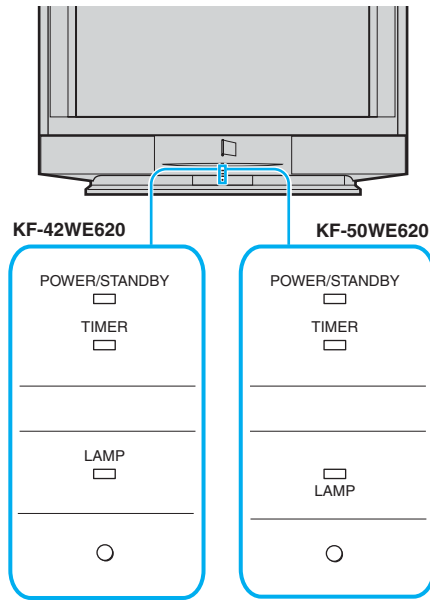
Channels

| <i>Problem</i> | <i>Possible Remedies</i> |
|---|---|
| Cannot receive upper channels (UHF) when using an antenna | <ul style="list-style-type: none"> ❑ Change the Cable option to Off (see page 67). ❑ Use Auto Program in the Channel menu to add receivable channels that are not presently in the TV's memory (see page 67). |
| TV is fixed to one channel | <ul style="list-style-type: none"> ❑ Use Auto Program in the Channel menu to add receivable channels that are not presently in the TV's memory (see page 67). ❑ Check your Channel Fix settings (see page 67). |
| Cannot receive any channels when using cable TV | <ul style="list-style-type: none"> ❑ Use Auto Program in the Channel menu to add receivable channels that are not presently in the TV's memory (see page 67). ❑ Check your cable settings. ❑ Make sure the Cable option is set to On in the Channel menu (see page 67). |
| Cannot receive or select channels | <ul style="list-style-type: none"> ❑ Use Auto Program in the Channel menu to add receivable TV channels that are not presently in TV memory (see page 67). |
| Cannot receive digital channels (when a digital TV receiver is connected) | <ul style="list-style-type: none"> ❑ Check the connections between the digital TV receiver and the LCD projection TV (see page 43). ❑ Check your local listings to find out if you can receive digital broadcasts in your area. |

General

| <i>Problem</i> | <i>Possible Remedies</i> |
|--|--|
| How to restore Video settings to factory settings | <input type="checkbox"/> Press RESET on the remote control while in the Video menu (see page 60). |
| How to restore Audio settings to factory settings | <input type="checkbox"/> Press RESET on the remote control while in the Audio menu (see page 63). |
| Cannot cycle through the other video equipment connected to the TV | <input type="checkbox"/> Be sure the Video Label option is not set to “Skip” (see page 74). |
| Cannot operate Menu | <input type="checkbox"/> If a menu option appears in gray, this indicates that the menu option is not available. |
| Lost password | <input type="checkbox"/> In the password screen (see page 69), enter the following master password: 4357 . The master password clears your previous password; it cannot be used to temporarily unblock channels. |
| LED on the display unit is lit | <input type="checkbox"/> The POWER/STANDBY indicator lights up when the TV is turned on. If the LED blinks continuously, this may indicate the TV needs service. <input type="checkbox"/> The TIMER indicates that the timer is set. When the timer is set, this LED will remain lit even when the LCD projection TV is turned off. |
| LCD projection TV is fixed to one channel | <input type="checkbox"/> Use Auto Program in the Channel menu to add receivable channels that are not presently in the TV’s memory (see page 67). <input type="checkbox"/> Check your Channel Fix settings (see page 67). |
| The replacement lamp does not light up | <input type="checkbox"/> The screw of the lamp cover may be slanted. Take out the screw, reinsert it straight into the screw hole, and then tighten it completely (see page 18). |
| TV cabinet creaks | <input type="checkbox"/> When the TV is in use, there is a natural rise in temperature, causing the cabinet to expand or contract and may be accompanied by a slight creaking noise. This is not a malfunction. |

Flashing Indicators on the Front of the Monitor



The POWER/STANDBY (red) and/or LAMP (red) indicators show the conditions of the LCD projection TV and warnings by lighting or flashing, as follows.

The POWER/STANDBY indicator flashes.

- The lamp for the light source is ready to turn on.

The POWER/STANDBY indicator flashes three times.

- The lamp cover is not attached securely. When corrected, the POWER/STANDBY indicator goes out and the LCD projection TV enters standby mode (see page 18).

The LAMP indicator flashes.

- The lamp for the light source has burned out. Replace it with a new one (see page 15).

If the LCD projection TV does not function properly after correcting the problems, contact qualified Sony personnel.

Specifications

| | | |
|-----------------------------------|--|--|
| Projection System | 3 LCD Panels, 1 lens projection system | |
| LCD Panel | 0.87 inch TFT LCD panel Approx. 3.28 million dots (1,092,168 pixels) | |
| Projection Lens | High Performance, large diameter hybrid lens F2.4 | |
| Antenna | 75 ohm external terminal for VHF/UHF | |
| Lamp | UHP lamp, 100W XL-2100U/XL-2100 | |
| Television System | NTSC, American TV Standard | |
| Screen Size (measured diagonally) | KF-42WE620: 42 inches, KF-50WE620: 50 inches | |
| Channel Coverage | | |
| VHF | 2-13 | |
| UHF | 14-69 | |
| CATV | 1-125 | |
| Power Requirements | 120V, 60 Hz | |
| Number of Inputs/Outputs | | |
| DVI-HDTV | 1 terminal, 3.3 V T.M.D.S., 50 ohms The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers. | |
| Video (IN) | 4 | 1 Vp-p, 75 ohms unbalanced, sync negative |
| S Video (IN) | 4 | Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms |
| Audio (IN) | 7 | 500 mVrms (100% modulation) Impedance: 47 kilohms |
| AUDIO OUT (VAR/FIX) | 1 | 500 mVrms at the maximum volume setting (Variable) 500 mVrms (Fixed) Impedance (output): 2 kilohms |
| CONTROL S (IN/OUT) | 1 | minijacks |
| Component Video Input | 2 (Y, P _B , P _R) | Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative P _B : 0.7 Vp-p, 75 ohms P _R : 0.7 Vp-p, 75 ohms |
| RF Inputs | 2 | |
| Converter | 1 | |
| Speaker Output | 5W (L), 5W (R), 20W (Woofer) | |
| Dimensions (W × H × D) | KF-42WE620: 47 1/4 × 32 1/4 × 14 1/2 inches (1,201 × 819 × 371 mm) KF-50WE620: 54 1/4 × 36 1/2 × 17 3/4 inches (1,377 × 928 × 452 mm) | |
| Mass | KF-42WE620: 70 lb 12 oz (32 kg) KF-50WE620: 87 lb 1 oz (39.5 kg) | |
| Power Consumption | | |
| In Use | 210 W | |
| In Standby | Under 1 W | |
| Supplied Accessories | | |
| Remote Control | RM-Y916 | |
| AA Batteries | 2 supplied for remote control | |

Optional Accessories

| | |
|----------|---|
| TV Stand | SU-GW11 (for KF-50WE620/KF-42WE620) SU-GW1 (for KF-50WE620) SU-GW2 (for KF-42WE620) |
| Lamp | XL-2100U/XL-2100 |

Design and specifications are subject to change without notice.

Index

Numerics

4:3 Default **66**

A

Activating a Twin View screen **54**
Adding channels to the channel list **68**
Adjusting audio, Steady Sound **63**
ANT button **51**
Antenna, connecting **29**
Audio menu **59, 63**
Audio Out **64**
Audio receiver, connecting **40**
Audio/Video cable **28**
Auto Program (channel setup) **47, 67**
Auto Setup **47, 67**

B

Balance, adjusting **63**
Bass, adjusting **63**
Batteries, inserting in remote **21**
BN Smoother **62**
Brightness, adjusting **61**

C

Cable
 connecting **29–32**
 setting ON/OFF **67**
 with VCR, connecting **33**
Cable box
 connecting with VCR **34**
 using with TV remote control **79**
Camcorder, connecting **45**
Caption Vision **73**
CATV. See Cable.
Change Password **70**
Channel Fix **67**
Channel Label **68**
Channel list, adding channels **68**
Channel menu **59, 67**
Channel Skip/Add **68**
Channels
 Auto Program **67**
 creating labels **68**
 setting up **47**
Clock/Timers **75**
Closed caption modes **73**

Color temperature, adjusting **61**

Color, adjusting **61**

Connecting

 Audio receiver **40**
 Cable box **30–32, 34–35**
 Cable or Antenna **29**
 Camcorder **45**
 Digital TV Receiver **43**
 DVD player **41, 42**
 Satellite receiver **37–39**
 VCR **33–36, 38**

Connector Types **28**

Contents of box **21**

CONTROL S **46**

D

Digital TV
 connecting **43**
 watching **52**
Digital TV program **52**
Digital TV receiver, connecting **43**
DISPLAY button **50**
DRC Mode **61**
DRC Palette **62**
DVD player
 using with TV remote control **80**
 with A/V connectors, connecting **42**
 with component video connectors, connecting **41**

E

Effect **63**
English Rating **72**
Enlarging pictures, in Twin View **56**

F

Favorite Channel
 setting up **67**
 using **53**
FAVORITES button **51**
Features **11**
FREEZE button **50**
Freeze, using **50, 57**
French Rating **72**
FUNCTION buttons **49, 51**

G

Game Picture Adjust **74**

H

High Altitude **76**

Hue, adjusting **61**

I

Image Shift **76**

Inputs, labeling **74**

Installation of the projection TV **21–47**

J

JUMP button **49**

Jump, using **49**

L

Label

Channels **68**

video inputs **74**

Lamp, replacing **15–20**

Language **74**

M

MENU button **50**

Menus

Audio **59, 63**

Channel **59, 67**

Parent **59, 69**

Screen **59, 65**

Setup **59, 73**

Video **59, 60**

Mode

Pro **60**

Standard **60**

Vivid **60**

Movie Rating **71**

MTS **63**

MTS/SAP button **51**

MTS/SAP, using **51**

Muting, using **49**

N

NR **61**

P

Parent Menu **69**

Parental Lock **69**

Password, changing **70**

Picture contrast, adjusting **61**

PICTURE MODE button **49**

Picture size, adjusting in Twin View **56**

POWER button (GREEN) **50**

POWER/STANDBY **87**

Presetting channels **53**

Problems, troubleshooting **82–86**

R

Ratings

setting **71**

viewing blocked programs **70**

Remote control

Function of buttons **49**

inserting batteries **21**

programming **77–78**

Removing channels from the channel list **68**

RESET button **50**

Resetting

Audio options **63**

Video options **60**

S

S Video cable **28**

Satellite receiver

connecting **37**

using with TV remote control **79**

Screen menu **65**

Select Country **70**

Setting up channels **47**

Setup menu **73**

Sharpness, adjusting **61**

Sleep **75**

Speaker **64**

Specifications **88–89**

Steady Sound

adjusting **63**

T

Timer

set current **75**

Timer menu **75**

Timer setting **75**

Treble, adjusting **63**

Troubleshooting **82–86**

TruSurround sound **63**

TV Rating **71**

TV/VIDEO button **50**

Twin View

activating a picture **54**

using **54**

U

Unrated **71**

USA Rating **72**

V

VCR

using with TV remote control **80**

with cable box, connecting **34**

with cable, connecting **33**

with satellite receiver, connecting **37**

Vertical Center **66**

Vertical Size **66**

Video inputs, labeling **74**

Video menu **59, 60**

Video Modes, selecting **60**

Viewing area, recommended **24**

Viewing Blocked Programs **70**

VOL +/- button **50**

W

Wide Mode **65**

WIDE MODE button **49**

Z

Zoom feature, with Twin View **56**

<http://www.sony.net/>

Printed in U.S.A.